

DELHI METRO RAIL CORPORATION LTD.

Contract No: - AMCC-01

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project.

SUMMARY SHEET (ADDENDUM NO-3)

S. No	Tender Document	Page No.	Clause No./ Item No.	Addendum / Corrigendum	Remarks
1	Volume-1, ITT	14	Clause C27.2	Clause amended	Page 14 is replaced with page 14R.
2	Volume-2, SCC	16	Sub clause 4.13	Clause No. 23 of SCC is assigned against 'Sub-Clause no. 4.13'	Page 16 is replaced with page 16R.
3	Volume-2, SCC	17	Sub clause 11.2.6	(i) Clause No. 24 of SCC is assigned against 'Sub- clause no. 11.2.6' (ii) Existing clause is revised	Page 17 is replaced with page 17R.
4	Volume-2, SCC	17	Clause 12.0 Variations	Clause No. 25 of SCC is assigned against 'Clause 12.0 Variations'	Page 17 is replaced with page 17R.
5	Volume-2, SCC	17	Training of contractor's Employees/Staff/ Workers	Clause No. 26 of SCC is assigned against 'Training of contractor's Employees/Staff/Workers'	Page 17 is replaced with page 17R.
6	Volume-2, SCC	21	Schedule 1A (Format for Parent Company Undertaking) and Schedule 1B (Format for Parent Company Guarantee) are newly added after existing Schedule 1 of SCC.	Page Nos. 21R to 23R are assigned to Schedule 1A. Page Nos. 24R to 26R are assigned to Schedule 1B.

7	Volume-2, SCC	21	Schedule-2 (Form of Contract Agreement)	Page numbers of Schedule-2 of SCC are revised	New Page Nos. 27R to 29R are assigned to Schedule-2 of SCC.
8	Volume-3 Employer's Requirements (Functional)	14	Clause 2.1.2 (xxviii)	Clause revised	Page 14 is revised with page 14R
9	Volume-3 Employer's Requirements (Functional)	21	Clause 2.1.9.4	Clause revised	Page 21 is revised with page 21R
10	Volume-3 Employer's Requirements (Functional)	21	Clause 2.1.9.4	Clause revised	New page 21A is added which shall be placed between Page 21R and 22. The new page 21A is required to accommodate the increased contents of amended Clause 2.1.9.4.
11	Volume-3 Employer's Requirements (Functional)	New Annexure-'A' to Employer's Requirements (Functional) is added by virtue of amended Clause 2.1.9.4.	Page nos. 30 & 31 are assigned to newly added Annexure-'A' of Employer's Requirements (Functional)
12	Volume-3 Employer's Requirements (Appendices)	58-62	Appendix-1	Appendix-1 (Drawing List) is revised	Pages 58 to 62 are replaced with pages 58R to 62R respectively.
13	Volume-5 Tender Drawings	Tender Drawings	Some Drawings are revised and some are newly added. Drawing list is also revised. Please refer revised drawing list.	Pages 1 to 7 of drawing list are replaced with pages 1R to 7R respectively.

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to correct errors made by the Tenderer, in which case such corrections shall be initialled and dated by the person or persons signing the Tender before scanning and uploading/submitted.

C26 Pricing of Conditions, Qualifications, Deviations etc.

C26.1 The tenderer should submit his tender which conforms to the tender documents without material deviation(s) or reservation(s). Where, however, the tenderer gives his offer subject to certain conditions, qualifications, deviations etc., the tenderer shall provide such details in the format prescribed in **Appendix-13** of FOT and price schedule for unqualified withdrawal corresponding these deviation(s) shall separately be furnished in the format prescribed in **Annexure-13A** of BOQ / Pricing Document. Tenders not accompanied by such price schedule shall be considered as deviation(s)/conditions are withdrawn.

C26.2 Tenderers shall note that except for deviation(s) listed in **Appendix-13** of FOT, the tender shall be deemed to comply with all requirements in the tender documents without any extra cost to the Employer irrespective of any mention to contrary, anywhere else in the tender document.

C27 Launching

C27.1 The tenderer shall adopt any of the launching method as mentioned in clause C27.1.1 and C 27.1.2 below.

C27.1.1 The Tenderer shall submit full details of his proposed Launching Girder to enable the Employer to review and give consent to the Launching Girder design during the tender Evaluation Period. The Launching Girder shall have the necessary arrangement to be capable of efficiently launching the girders from below and in case required, it should also be capable of feeding the segments from the rear end over the already erected span. The tenderers shall carry out such design studies as they consider necessary for selection of appropriate Launching Girder. It is expected that the contractor shall place the order for manufacture of Launching Girder immediately after the receipt of Letter of Acceptance.

C27.1.2 The Tenderer shall submit full details of his proposed Launching scheme to enable the Employer to review and give consent to the Launching arrangement during the tender Evaluation Period. The launching scheme shall have the arrangement of launching of I-girder or U girder span. The tenderers shall carry out such design studies as they consider necessary for selection of appropriate Launching arrangement. It is expected that the contractor shall place the order for arrangement of cranes of suitable capacity after the receipt of Letter of Acceptance

C27.2 The Tenderer should submit a list of the components to be sourced from all supplier locations and show the timing of delivery, assembly, testing and transport to ~~Delhi~~ **Vijayawada**.

D. Submission of Tenders

D1 The tenderer shall submit their tender on-line on e-tendering website www.tenderwizard.com/DMRC.

D1.1 Only 'Tender Security' and 'Cost of Tender Document' shall be submitted in originals (in physical form) as described below.

D1.2 The tenderer shall seal the 'Cost of Tender Documents' in an envelope, bearing the following identification for cost of tender document:

“COST OF TENDER DOCUMENTS”, Tender Reference No. – AMCC-01

and submit the same as per schedule mentioned in NIT at the address mentioned below. The tenderer shall also mention his Name and address on above envelope.

D1.3 The tenderer shall seal the 'Tender Security' in an envelope, bearing the following identification for Tender Security:

“TENDER SECURITY”, Tender Reference No. – AMCC-01

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- (a) Within 14 days (or such other period as the Engineer may allow) of the Engineer informing the Contractor in writing of the intention to request an Employer's Variation, the Contractor shall notify the Engineer in writing whether in his opinion the Employer's Variation would, if ordered:
- (i) give rise to any entitlement to an extension of time; or
 - (ii) affect the achievement of any Milestone; or
 - (iii) give rise to any entitlement to additional payment; or
 - (iv) affect the warranties of the Contractor set out in Clause 4.2 of Special Conditions of Contract, and shall submit his proposals as to the terms upon which he would agree to implement the Employer's Variation.
- (b) The Engineer shall determine the amount which should be added to or deducted from the fixed lump sum price as a result of the Variation and get it approved by the Employer. In assessing work covered by any sub-contract, the Engineer will have, where he deems necessary, access to the original sub-contract conditions, rates, prices and details of the variation claimed, to assist in evaluating any Variations and the agreed rates if any of major items of work/ activities, labour, plant and machinery and where appropriate the local market rates for these items.
- (c) If the Engineer withdraws the request for an Employer's Variation, the Contractor shall have no claim of any kind whatsoever arising out of the amount determined above. In case the Employer's Variation involves omission of part of the Works, the agreement shall address the issue of reduction in the Contract Price.

There shall be only deductions in the fixed lump price as a result of Contractor's variations. The Engineer shall take prior approval of the Employer to the aforesaid valuation. Any such amount determined by the Engineer shall be denominated in the same currency as the relevant parts of the fixed lump sum price.

In case of any variation, once the rates have been finalised by the Engineer and approved by the Employer, the contractor shall be bound to carry out with the same. No claims shall be entertained by the Employer in this regard.

Note: The Schedules attached to SCC may be modified as considered necessary at the time of finalisation of the contract.

23 Sub clause 4.13
Programme of Work

The Contractor shall prepare and submit his detailed Programme of Work so as to achieve key dates of various activities. The Contractor shall complete the work in a phased manner fixing priorities to the different stretches of the work to give access to other interfacing contracts as per the requirement of project from time to time.

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24 Sub-Clause 11.2.6 INTEREST IN CASE OF DELAY IN REPAYMENT OF ADVANCES

In case there is a delay in progress and completion of work, as a result of which it is not possible to recover the advance before the original date of completion stipulated in the contract then:

(i) Interest will be charged on the balance outstanding advance after the original date of completion at the rate of 3% above SBI Base Rate or 12% whichever is higher.

(ii) Interest will be calculated from the next day after the Original Date of Completion and up to the day the advance is actually paid back or recovered from respective RA bills (both days inclusive) and so on.

25 Clause 12.0 Variations

(C) Day work

For payment of extra items, the Engineer may decide to pay on the basis of 'Day Work' concept instead of paying as per clause no. 12.5(ii) of GCC .In such a case the Engineer may, if in his opinion it is necessary or desirable issue an instruction that any varied work or new item of work shall be executed on a daywork basis. The Contractor shall be then paid for such item based on the actual expenditure made on daily basis under the terms set out in daywork schedule included in the Contract and at the rates and prices affixed by him in the tender.

The Contractor shall furnish such receipts or other vouchers as may be necessary to prove the amounts paid and before ordering Materials shall submit to the Engineer the quotations for the same for his approval The Contractor shall furnish to the Engineer or his representative, a daily list (with name, occupation and shift time) of all workmen deployed on the work, in duplicate for checking and approval. The Contractor shall submit to the Engineer a priced statement of labour, material, plant, etc., actually used on the work, together with the output of work at the end of each calendar month and / or as soon as the work is completed. The payment for the new item of work will be certified by the Engineer based on this submission of contractor.

26 Training of contractor's Employees / Staff / Workers

Contractor shall provide a training / workshop on Safety, Health & Environment (SHE) to all its workers/ employees/ subcontractors of at least 2 weeks (96 hrs) at the time of induction. Before posting any of his workers / staff / employees / subcontractors, the contractor shall give a certificate that the said person had undergone the requisite SHE training. Non-compliance of the above will invoke penalties as per conditions of contract on SHE.

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SCHEDULE 1A

PARENT COMPANY UNDERTAKING

(Refer Clause 3 of SCC)

THIS UNDERTAKING is made the _____ day of _____

BY [_____] [whose registered office is at]/[of] [_____] ("the Parent Company").

TO The DELHI METRO RAIL CORPORATION LIMITED together with its successors and assigns, "the Employer") of:
Metro Bhawan,
Fire Brigade Lane
Barakhamba Road,
New Delhi 110001,
India.

WHEREAS

- (A) By a Contract [_____] dated [_____] ("the Contract") made between (1) the Delhi Metro Rail Corporation Limited (" the Employer") and (2) [_____] ("the Contractor") the Contractor has agreed to execute, complete and remedy any defects in the works ("the Works") upon the terms and conditions contained in the Contract.
- (B) Pursuant to the terms of the Contract, the Contractor has agreed to procure the provision of an undertaking in the terms hereof.
- (C) The Parent Company is the beneficial owner of [_____]% [see Note 1] of the issued share capital of [the Contractor] [see Note 2].
- (D) At the request of the Contractor, the Parent Company has agreed to provide this undertaking.

NOW IT IS HEREBY UNDERTAKEN AND AGREED as follows:

1. In consideration of the Employer entering into the Contract with the Contractor, the Parent Company hereby undertakes to the Employer that:-
 - (a) *the parent company will inform the employer in the event that it sells, transfers, assigns or otherwise disposes of or deals with the ownership of the whole or any part of the shareholding or other interests in the subsidiary (the Contractor) of the parent company; and*
 - (b) In case of transfer of ownership / control of the subsidiary or of the Parent Company, an updated parent company guarantee and parent company undertaking will be provided from the new Holding / Parent Company.
 - (c) not take any action which may result in the Contractor being unable to comply with

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his obligations or perform in any way his duties under the Contract [or take any action which may result in [the subsidiary forming part of the Contractor] [see Note 3] being unable to comply with his obligations or perform in any way his duties under the [joint venture or other relevant] agreement] [see Note 6] without the written consent of the Employer,

- (d) To provide full technical support including providing support with available patent rights, registered design, copyright, design, trademark, trade name, know how or other intellectual property right to our subsidiary during currency of the contract which may be deemed necessary to successfully comply with all obligations under this contract and for the Service Life of System / Equipment until such time as the Works shall have been completed, all the Contractor's obligations under the Contract shall have been performed and the Maintenance and Defects Liability Period (as defined in the Contract) for the whole and every part of the Works shall have elapsed and further that it will ensure [that the subsidiary forming part of the Contractor will take all steps necessary to ensure [see Note 6] compliance by the Contractor with the provisions of the Contract.

2. The obligations of the Parent Company under this Undertaking shall remain in full force and effect and shall not be affected or discharged in any way and the Parent Company hereby waives notice of:-

- (a) any suspension of the Works, variation or amendment to the Contract (including without limitation extension of time for performance) or any concession or waiver by the Employer in respect of the Contractor's obligations [and/or the obligations of [] [see Note 7];
- (b) any provision of the Contract being or becoming illegal, invalid, void, voidable or unenforceable;
- (b) the termination of the Contract or of the employment of the Contractor [and/or [] [see Note 7] under the Contract for any reason;
- (d) any forbearance or waiver of any right of action or remedy the Employer may have against the Contractor [and/or [] [see Note 7] or negligence by the Employer in enforcing any such right of action or remedy;
- (e) any bond, undertaking, security or other guarantee held or obtained by the Employer for any of the obligations of the Contractor [and/or [] [see Note 7] under the Contract or any release or waiver thereof.

3. This Undertaking shall extend to any variation of or amendment to the Contract and to any agreement supplemental thereto agreed between the Employer and the Contractor [and/or [] [see Note 7] and for the avoidance of doubt the Parent Company hereby authorises the Employer and the Contractor [and/or [] [see Note 7] to make any such amendment, variation or supplemental agreement.

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4. All documents arising out of or in connection with this Undertaking shall be served:
 - (a) upon the Employer, at [] marked for the attention of [];
 - (b) upon the Parent Company, at [] India. [Note 8]
5. The Employer and the Parent Company may change their respective nominated addresses for service of documents to another address in India but only by prior written notice to each other. All demands and notices must be in writing.
6. This Undertaking shall be governed by and construed according to the laws for the time being in force in India and the Parent Company agrees to submit to the jurisdiction of the courts of Delhi / New Delhi.

IN WITNESS where of this Undertaking has been executed as a deed on the date first before written.

THE COMMON SEAL of)
[])
was affixed hereto)
in the presence of:-)

Notes: (for preparation of but not for inclusion in the engrossment of this Undertaking)

1. If the Parent Company is not the immediate parent company, the chain of ownership must be recited, identifying each company in the chain and the shareholdings or other interests in each subsidiary.
2. If the Contractor comprises more than one company, that fact and the joint venture or other relevant agreement must be recited. In such case, insert the name of the subsidiary forming part of the joint venture, partnership or consortium, and in respect of which the parent company undertaking is being given.
3. If Note 2 applies, refer to the subsidiary of the Parent Company and not the Contractor.
4. If Note 1 applies, use this alternative.
5. If Note 1 applies, add this provision.
6. If Note 2 applies, add this provision.
7. If Note 2 applies, add this provision and insert the name of the subsidiary.
8. The address for service shall be India.

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SCHEDULE 1B

PARENT COMPANY GUARANTEE

(Refer Clause 3 of SCC)

THIS GUARANTEE is made on the day of between

(1) [.....] whose registered office is at [.....] and [.....] whose registered office is at [.....] ("the Guarantor").

(2) The DELHI METRO RAIL CORPORATION LIMITED (together with its successors and assigns, "the Employer") of:

Metro Bhawan,
Fire Brigade Lane,
Barakhamba Road,
New Delhi 110001, India.

WHEREAS

(A) By a contract [NO.] dated [.....] ("The Contract") made between (1) the Delhi Metro Rail Corporation Limited ("the Employer") and (2) [.....] ("the Contractor"), the Contractor has agreed to design, execute, complete and remedy any defects in the Works upon the terms and conditions contained in the Contract.

(B) Pursuant to the terms of the Contract, the Contractor has agreed to procure the provision of a guarantee in the terms hereof. [see Note 1].

(C) At the request of the Contractor, the Guarantor has agreed to guarantee performance of the Contract by the [Contractor] [see Note 2] as set out herein.

IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the Employer entering into the Contract with the Contractor, the Guarantor irrevocably and unconditionally guarantees to the Employer as a primary obligation and not as a surety due performance by the [Contractor] [see Note 2] of all of its obligations and liabilities under and in accordance with the Contract save that nothing herein shall be construed as imposing greater obligations or liabilities on the Guarantor than are imposed on the [Contractor] [see Note 2] in the Contract.

2. The obligations of the Guarantor under this Guarantee shall remain in full force and effect and shall not be affected or discharged in any way by and the Guarantor hereby waives notice of:-

(a) any suspension of the Works, variation to or amendment of the Contract (including without limitation extension of time for performance) or any concession or waiver by the Employer in respect of the Contractor's obligations [and/or the obligations of [] [see Note 3] under the Contract;

(b) any provision of the Contract being or becoming illegal, invalid, void, voidable or unenforceable;

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- (c) the termination of the Contract or of the engagement of the Contractor [and / or [.....]] [see Note 3] under the Contract for any reason;
 - (d) any forbearance or waiver of any right of action or remedy the Employer may have against the Contractor [and / or [.....]] [see Note 3] or negligence by the Employer in enforcing any such right of action or remedy;
 - (e) any bond, undertaking, security or other guarantee held or obtained by the Employer for any of the obligations of the Contractor [and/or [.....]] [see Note 3] under the Contract or any release or waiver thereof.
3. This Guarantee shall extend to any variation of or amendment to the Contract and to any agreement supplemental thereto agreed between the Employer and the Contractor [and/or []] [see Note 3] and for the avoidance of doubt the Guarantor hereby authorises the Employer and the Contractor [and/or []] [see Note 3] to make any such amendment, variation or supplemental agreement.
4. This Guarantee is a continuing guarantee and accordingly shall cover all of the obligations and liabilities of the [Contractor] [see Note 2] under the Contract and remain in full force and effect until all the said obligations and liabilities of the Contractor shall have been carried out, completed and discharged in accordance with the Contract. This Guarantee is in addition to any other security which the Employer may at any time hold and may be enforced without first having recourse to any such security or taking any steps or proceedings against the Contractor.
5. Until expiry of the Maintenance and Defects Liability Period (as defined in the Contract) for the whole and every part of the Works, the Guarantor shall not on any ground whatsoever make any claim or threaten to make any claim whether by proceedings or otherwise against the Contractor [and/or []] [see Note 3] for the recovery of any sum paid by the Guarantor pursuant to this Guarantee. Any such claim shall be subordinate to any claims (contingent or otherwise) which the Employer may have against the Contractor [and/or []] [see Note 3] arising out of or in connection with the Contract until such time as such claims shall be satisfied by the Contractor [and/or []] [see Note 3] or the Guarantor as the case may be. To that intent the Guarantor shall not claim or have the benefit of any security which the Employer holds or may hold for any monies or liabilities due or incurred by the Contractor [and/or []] [see Note 3] to the Employer and, in case the Guarantor receives any sum from the Contractor [and/or []] [see Note 3] in respect of any payment by the Guarantor hereunder, the Guarantor shall hold such sum in trust for the Employer for so long as any sum is payable (contingently or otherwise) under this Guarantee.
6. The Employer shall be entitled to assign the benefit of this Guarantee at any time without the consent of the Guarantor or the [Contractor] [see Note 2] being required.
7. All documents arising out of or in connection with this Guarantee shall be served:
- (a) upon the Employer, at [.....] marked for the attention of [.....];
 - (b) upon the Guarantor, at [.....] India. [Note 4]

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8. The Employer and the Guarantor may change their respective nominated addresses for service of documents to another address in India but only by prior written notice to each other. All demands and notices must be in writing.
9. This Guarantee shall be governed by and construed according to the laws for the time being in force in India and the Contractor agrees to submit to the jurisdiction of the courts of India.

IN WITNESS whereof this Guarantee has been executed as a deed on the date first before written.

THE COMMON SEAL
of[.....]

was affixed hereto in the
presence of:-

Notes (for preparation of but not inclusion in the engrossment of this Guarantee)

1. If the Contractor comprises more than one company, that fact, the joint venture or other relevant agreement and the relationship of the Guarantor to its subsidiary forming part of the Contractor must be recited.
2. If Note 1 applies, replace the word "Contractor" with name of the subsidiary being guaranteed.
3. If Note 1 applies, add additional wording and insert the name of the subsidiary being guaranteed.
4. The address for service shall be in India

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SCHEDULE 2

FORM OF CONTRACT AGREEMENT

(Refer Clause F4 of ITT)

This Agreement is made at New Delhi on the day of (month) **2015** Between Delhi Metro Rail Corporation Limited, 5th Floor, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110 001 hereinafter called “the Employer” of the one part and (Name & Address of Contractor) hereinafter called “the Contractor” of the other part. Whereas the Employer is desirous that (** certain Goods and Services should be provided and) the Works should be executed, viz.(Name of work as mentioned under Clause 1.1 of NIT) hereinafter called “the Works” and has accepted a Tender by the Contractor for the execution and completion of such works (** as well as guarantee of such works) and the remedying of defects therein.

This agreement is signed between (for and on behalf of the Employer) and (for and on behalf of the Contractor).

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. These documents shall be signed by..... (for and on behalf of the Employer) and (for and on behalf of the Contractor).
 - a) Notice Inviting Tender (NIT)
 - b) Instructions to Tenderers (ITT)(Including Annexures)
 - c) Form of Tender with Appendix
 - d) Special Conditions of Contract (SCC)
 - e) General Conditions of Contract (GCC)
 - f) Conditions of contract on Safety, Health & Environment (SHE).
 - g) Employer’s Requirements
 - h) Specifications
 - i) Tender Drawings
 - j) Bill of Quantities
 - k) Geotechnical Report
 - l) Letter of acceptance (LOA)
 - m) Contractor’s proposal submitted along with the tender
 - n) Any other item as applicable

The modifications to the tender documents communicated through the Addenda (..... Numbers) issued to the tenderers at the time of tender have been incorporated in the consolidated contract

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documents. Hence, the Addenda (..... Numbers) are not included in the contract documents. Copies of the Addenda are available with the Employer, Contractor and Employer's Representative. As and when required, they could be referred to and in case of any discrepancy Between the corrections/modifications incorporated in the consolidated contract documents and the Addenda, the provision of the Addenda shall prevail.

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works by **..... and remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying of defects therein, the Total Contract Price of **₹ being the sum stated in the letter of acceptance subject to such additions thereto or deductions there from as may be made under the provisions of the Contract at the times and in the manner prescribed by the Contract.

5. OBLIGATION OF THE CONTRACTOR

The contractor shall ensure full compliance with tax laws of India with regard to this contract and shall be solely responsible for the same. The contractor shall submit copies of acknowledgements evidencing filing of returns every year and shall keep the Employer fully indemnified against liability of tax, interest, penalty etc. of the contractor in respect thereof, which may arise.

6. JURISDICTION OF COURT

The Courts at Delhi/ New Delhi shall have the exclusive jurisdiction to try all disputes arising out of this agreement between the parties.

IN WITNESS WHEREOF the parties hereto have caused their respective Common Seals to be hereunto affixed / (or have hereunto set their respective hands and seals) the day and year first above written.

For and on behalf of the Contractor

For and on behalf of the Employer

Signature of the authorized official

Signature of the authorized official

Name of the official

Name of the official

Stamp/Seal of the Contractor

Stamp/Seal of the Employer

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project.

SEALED, SIGNED & DELIVERED

By the said(Name) on

By the said(Name) on

behalf of the Contractor in the presence of :

behalf of the Employer in the presence of :

Witness

Witness

Name :

Name :

Address :

Address :

Note:

- * To be made out by the Employer at the time of finalization of the Form of Agreement.
- ** Blanks to be filled by the Employer at the time of finalization of the Form of Agreement.
- *** To be deleted if not applicable

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project

- (xvi) Inserts for track plinth (track plinth is not in the Scope of this work).
- (xvii) Expansion joint, sealant in the expansion joints as per concept plan as per specification.
- (xviii) Man holes with manhole covers made of Cast Iron on the deck with locking arrangement.
- (xix) Earthing arrangement, drainage system and inserts for signalling masts in the parapets and other systems as may be required. Location of these inserts shall be as directed by the Engineer.
- (xx) Designing and construction of ground water recharging/rain water harvesting systems in alternate spans to cater all the piers.
- (xxi) Piers including cantilever piers, portal piers and portal beams.
- (xxii) The work also includes the construction of piers and pier caps at the start and end of station area.
- (xxiii) Design and construction of pedestal, bearings and shear restraining devices at Chainage 6577.000 end. Foundation systems, piers and pier caps at this end of this contract package shall be provided by DMRC/Contractor of the adjacent package.
- (xxiv) Provision for cut-outs in the viaducts required for services in coordination with various system contractors.
- (xxv) Grooves on the parapets.
- (xxvi) Provision for MS/ RCC ladders / staircases along with railing for approaching the viaduct track bed from station platform at both ends for up & down lines shall be inclusive.
- (xxvii) At some locations tenderer may have to do cast-in-situ construction for the viaduct depending on the site constraints.
- (xxviii) Demolition/dismantling of RCC framed /steel structures/buildings, masonry buildings including basement, ground and above floors as existing at site on the alignment of viaduct and station locations as indicated in GAD without making damages to the adjacent structures, utilities, etc. including disposing off retrieved materials out of site of work. Demolition/dismantling of road, footpath, kerbstone, central verge, boundary wall, etc. Tenderer must visit the site and ascertain actual magnitude of quantum of work involved for footpaths, kerbstone, central verge, boundary wall, etc. and nothing shall be payable on this account. Retrieved materials obtained from demolition/dismantling shall be property of the contractor. However in case of Foot Over Bridge, the contractor has to hand over the serviceable material at location as directed by DMRC/FOB owning department. **Acquisition and evacuation of the properties will be done by the concerned Authority.**
- (xxix) The contractor has to get necessary permission/ NOC from the railway, road and other concerned regulatory authorities for block and working in such locations. DMRC will facilitate for getting them permission from concerned regulatory authorities for working in such locations.
- (xxx) Design and construction of single track and transition viaducts for the portion indicated in the GAD. Contractor shall account for the provisions for variation in deck width from the standard deck (for two track) in their quotation and nothing extra shall be payable on this account.
- (xxxi) Design and construction of entry–exit connection to depot by viaduct and ramp.

NOTES:-

- 1) Pile foundation shall be of minimum of 1000mm dia. with or without permanent liners with hydraulic rotary piling rigs or open footing in case pile driving is not feasible.
- 2) Earth filling of pile cap area to be done with proper compaction with good earth up to plinth level wherever required. For the area falling on the road, backfilling shall be done with sand only.
- 3) It is obligatory for the contractor to provide a single pier structure in the viaduct of minimum dia. 1.60 m.

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- vi. E & M Contractor will ensure that the production of Working Drawings for Services to be provided in the base slab, other slabs, viaducts and structures such as earth mats, electrodes, provision of conduiting, cable support, brackets, cable trays / cable ladders, cable routing, fixture mounting, DB mounting, lighting protection, piping, fire fighting system and other works included in E & M tender in carried out in time and approval obtained from the Employers Representative. Civil Contractor shall obtain Copy of Drawings along with schedule for execution of such works including information required for any concreting/other works where electrical works is involved.
- vii. The Civil Contractor shall conduct regular meetings with the E & M Contractor as necessary to clarify particular aspects of the interfacing requirements of the works. He will also attend regular coordination meetings convened by the Employer / Engineer for Interface.
- viii. The Civil Contractor, shall in carrying out his coordination responsibilities, raise in good time and provide sufficient information for the Employer to decide on any disagreement with E & M Contractor. If the contractor despite having taken all reasonable efforts cannot resolve such disagreement, then the decision of the Engineer shall be final.
- ix. The E & M Contractor shall ensure that the presence of his qualified and experienced engineer (Chief – Co - coordinator) during Civil construction of the station to enable proper interface with Civil Contractor so as to ensure smooth completion of works.
- x. Access will be provided to the staff of the E & M Contractor for carrying out their works and bringing materials and equipments at the site. However, the security of a materials and Equipments brought at the site will be responsibility of the E & M Contractor.
- xi. Construction of Plant rooms, Ancillary building, Cable duct, sumps for seepage and sewage, provision of slope in slabs as per drainage requirements, shall be the responsibility of the Civil Contractor. Civil Contractor shall interface with E & M Contractor / other contractors regarding this.
- xii. Civil Contractor shall interface with E&M Contractor regarding cutouts to be made in structures for routing E&M services. The Civil Contractor shall provide these cutouts.

2.1.9.3 Interface with Elevator/escalator contractor

- i. Provide Shaft structure
- ii. Provide lifting beams at the top of shafts and sumps in pits
- iii. Provide Head room structure
- iv. Providing lifting hooks at the top of lift shafts and escalator if required.
- v. Providing Intermediate support structures for escalators

2.1.9.4 Interface with Traction Power Supply Contractor

- (i) The Contractor shall construct appropriate passages/ trenches, ducts, cable shaft and also keep provision of crossing of various cables in the station along with walls, central column, under the platform in interface with Power Supply Contractor.**
- (ii) The Contractor shall provide Cable containment i.e. Cable trough, GI Support Brackets, HDPE pipe etc. for laying of 33 kV , DC & LT cables on Viaduct.**

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- (iii) The Contractor shall coordinate with Power Supply Contractor in order to maintain specific Static and Dynamic clearances.**
- (iv) The Contractor shall provide earthing arrangements in viaduct segments, Pier and pier caps, railing etc.**
- (v) The Contractor shall interface with traction contractor for earthing, bonding and stray current mitigation at stations and Viaduct such as Insulated Shear connector, welding of reinforcement bars and earth terminal etc.**
- (vi) The Contractor shall provide Platform Insulation membrane of minimum 2 meter wide from the edge of the platform in consultation with the Traction Contractor.**

Other important interface points with the Traction Power Supply Contractors are enclosed as Annexure A.

2.1.10 TRAFFIC MANAGEMENT

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project

ANNEXURE-A

Interface with Traction Power Supply Contractor

Civil contractors is advised to closely interface with the other system vide contractors, to identify the interface requirements and deliverables, some of the important interface points with the Traction Power Supply Contractors are as under:-

Viaduct/ Station contractor

S.No	Interface Issue	Remarks
1.	Provisions of Earthing, Bonding & Stray current mitigation.	Interface with traction for earthing, bonding and stray current mitigation at stations and Viaduct such as Insulated shear connector, welding of reinforcement bars and earth terminals etc.
2.	Provision of routing 33 kV cables from RSS to viaduct / TSS+ASS / ASS	Provision of necessary interface with Traction contractor for providing cutouts, HDPE pipes, cable gallery, U bolts, J Bolts etc. for laying of cables and sealing thereafter.
3.	Cable containment for 33kV, DC & LT cables.	Provision of Brackets on Viaduct, cable cutout , HDPE conduit etc.
4.	Earthing terminal on the viaduct	Handrail earthing, earthing of pier and parapet segments etc.
5.	Cut outs in Station area.	Provision for necessary interface with Traction contractor for laying of cables.
6.	Conduits for viaduct lighting	Sleeves in walkway for laying of wires
7.	Insulation membrane on platform and beneath Traction Equipment's.	Insulation membrane of at least 2 meter width from the platform edge shall be provided.
8.	Adequate space for traction equipment i.e. size of TSS+ASS & ASS rooms.	Based on Different Type of Via Duct (U Girder, Box Girder etc.) necessary space for Electrical equipment's to be interfaced.
9.	Loading deck	Loading requirement to be considered by civil based on Traction contractor requirement for ASS, TSS.
10.	Rolling shutter	Height of Rolling Shutter for Auxiliary substation Entry should be kept at least 3.5 meters.
11.	Space in viaduct for installation of DC disconnects switches and Third rails equipment's.	Interface for providing adequate space / clearances etc. for DC disconnect switches and Third Rail equipment's.

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Depot Contractor

S. No	Interface Issue	Remarks
1.	Provision of I Beam for Stinger System.	Necessary interface for supply, fixing and installation of I beam for Stinger in depot workshop, inspection bays etc. as required shall be provided.
2.	Cable trench / HDPE conduits.	Cable Trench / HDPE conduits for power cable crossing of track beds, road etc.
3.	Foundation for DC disconnects switches.	Location and foundation details to be interfaced with traction contractor

Track Contractor

S. No	Interface Issue	Remarks
1.	Provisions of Earthing, Bonding & Stray current mitigation.	In DC Traction System Stray Current mitigation provisions shall be kept in the civil Track plinth, pier etc. like Insulated Shear Connector, holes in track plinth for stray current cable, negative return cable etc.
2.	Cable crossings at stations & turnouts / cross over.	Cable Trench / HDPE conduits for power cable crossing of track beds etc.
3.	Insulated rail Joints	Provide insulated Rail joints at selected locations in main line and depots as per requirement of traction contractor.
4.	Details of Track alignment, sleeper, Track bed, turnout, crossover etc. and provision of dowels / inserts for fixing of Third rail support Brackets.	Close Interface required between Traction and Track contractor in order to finalize details and fixing arrangement for third Rail Bracket on plinth / sleepers
5.	Return cable connection	Interface with Traction contractor for fixing of negative return cable as per requirement

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EMPLOYER'S REQUIREMENTS

APPENDIX 1

DRAWING LIST

The Tender Documents contains a set of reference/Tender drawings that are applicable to the Contract Works. The Tenderer shall incorporate into the Tender only those drawings from that set which amplify aspects of the Contractor's Technical Proposals. General information drawings will not be included in the Contract.

The List of Drawings issued with the tender drawings is as under:-

S. No.	DESCRIPTION	DRAWING NO.
1	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 11 OF 19 <u>Rev. R2</u>
2	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 12 OF 19
3	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 13 OF 19 <u>Rev. R1</u>
4	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 14 OF 19
5	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 15 OF 19
6	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 16 OF 19 <u>Rev. R1</u>
7	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 17 OF 19 <u>Rev. R1</u>
8	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 18 OF 19 <u>Rev. R1</u>
9	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 19 OF 19 <u>Rev. R1</u>
<u>9A</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 1 OF 3 Rev. R2</u>
<u>9B</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 2 OF 3 Rev. R2</u>
<u>9C</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 3 OF 3 Rev. R2</u>
<u>NIDAMANURU</u>		
10	DRAWING LIST	-----
11	INSERTION PLAN	AMCC-TEN-NDM-001- R0 <u>R1</u>
12	GROUND LEVEL PLAN	AMCC-TEN-NDM-002- R0 <u>R1</u>
13	CONCOURSE LEVEL PLAN	AMCC-TEN-NDM-003- R0 <u>R1</u>
14	PLATFORM LEVEL PLAN	AMCC-TEN-NDM-004- R0 <u>R1</u>
15	ROOF LEVEL PLAN	AMCC-TEN-NDM-005- R0 <u>R1</u>
16	SECTIONS	AMCC-TEN-NDM-006- R0 <u>R1</u>

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S. No.	DESCRIPTION	DRAWING NO.
<u>ENIKEPADU</u>		
17	DRAWING LIST	-----
18	INSERTION PLAN	AMCC-TEN-EKP-001- R0 <u>R2</u>
19	GROUND LEVEL PLAN	AMCC-TEN-EKP-002- R0 <u>R2</u>
20	CONCOURSE LEVEL PLAN	AMCC-TEN- EKP-003- R0 <u>R1</u>
21	PLATFORM LEVEL PLAN	AMCC-TEN- EKP-004- R0 <u>R1</u>
22	SECTIONS	AMCC-TEN- EKP-005- R0 <u>R1</u>
23	ROOF LEVEL PLAN	AMCC-TEN- EKP-006- R0 <u>R1</u>
<u>RAMAKRISHNA WEIGH BRIDGE</u>		
24	DRAWING LIST	-----
25	INSERTION PLAN	AMCC-TEN-RWB-001- R0 <u>R2</u>
26	GROUND LEVEL PLAN	AMCC-TEN- RWB-002- R0 <u>R2</u>
27	CONCOURSE LEVEL PLAN	AMCC-TEN- RWB-003- R0 <u>R1</u>
28	PLATFORM LEVEL PLAN	AMCC-TEN- RWB-004- R0 <u>R1</u>
29	SECTIONS	AMCC-TEN- RWB-005- R0 <u>R1</u>
30	ROOF LEVEL PLAN	AMCC-TEN- RWB-006- R0 <u>R1</u>
<u>PRASADAMPADU</u>		
31	DRAWING LIST	-----
32	INSERTION PLAN	AMCC-TEN-PDP-001- R0 <u>R1</u>
33	GROUND LEVEL PLAN	AMCC-TEN-PDP-002- R0 <u>R1</u>
34	CONCOURSE LEVEL PLAN	AMCC-TEN-PDP-003- R0 <u>R1</u>
35	PLATFORM LEVEL PLAN	AMCC-TEN-PDP-004- R0 <u>R1</u>
36	SECTIONS	AMCC-TEN-PDP-005- R0 <u>R1</u>
37	ROOF LEVEL PLAN	AMCC-TEN-PDP-006- R0 <u>R1</u>
<u>RAMAVARAPADU RING</u>		
38	DRAWING LIST	-----
39	INSERTION PLAN	AMCC-TEN-RVR-001- R0 <u>R1</u>
40	GROUND LEVEL PLAN	AMCC-TEN-RVR-002- R0 <u>R1</u>
41	CONCOURSE LEVEL PLAN	AMCC-TEN-RVR-003- R0 <u>R1</u>
42	PLATFORM LEVEL PLAN	AMCC-TEN-RVR-004- R0 <u>R1</u>
43	SECTIONS	AMCC-TEN-RVR-005- R0 <u>R1</u>
44	ROOF LEVEL PLAN	AMCC-TEN-RVR-006- R0 <u>R1</u>
<u>GUNDALA</u>		
45	DRAWING LIST	-----
46	INSERTION PLAN	AMCC-TEN-GDL-001- R0 <u>R2</u>

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S. No.	DESCRIPTION	DRAWING NO.
47	GROUND LEVEL PLAN	AMCC-TEN-GDL-002- R0 <u>R2</u>
48	CONCOURSE LEVEL PLAN	AMCC-TEN-GDL-003- R0 <u>R1</u>
49	PLATFORM LEVEL PLAN	AMCC-TEN-GDL-004- R0 <u>R1</u>
50	SECTIONS	AMCC-TEN-GDL-005- R0 <u>R1</u>
51	ROOF LEVEL PLAN	AMCC-TEN-GDL-006- R0 <u>R1</u>
TYPICAL DRAWINGS		
52	DMRC-DESIGN-AMCC-SV-101	GENERAL NOTES (SHEET 1 OF 2)
53	DMRC-DESIGN-AMCC-SV-102	GENERAL NOTES (SHEET 2 OF 2)
54	DMRC-DESIGN- AMCC-SV-151	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 37.0M C/C OF PIER)
55	DMRC-DESIGN- AMCC-SV-152	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 34.0M C/C OF PIER)
56	DMRC-DESIGN- AMCC-SV-153	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 31.0M C/C OF PIER)
57	DMRC-DESIGN- AMCC-SV-154	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 28.0M C/C OF PIER)
58	DMRC-DESIGN- AMCC-SV-155	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 25.0M C/C OF PIER)
59	DMRC-DESIGN- AMCC-SV-156	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 22.0M C/C OF PIER)
60	DMRC-DESIGN- AMCC-SV-157	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 19.0M C/C OF PIER)
61	DMRC-DESIGN-AMCC-SV-251	DIMENSIONAL DETAILS OF SEGMENT SE1 AT FIXED END STANDARD UNIT (SPAN 37.0 C/C OF PIER)
62	DMRC-DESIGN-AMCC-SV-252	DIMENSIONAL DETAILS OF SEGMENT S3 STANDARD SPANS
63	DMRC-DESIGN-AMCC-SV-253	DIMENSIONAL DETAILS OF SEGMENT S4,S5 & S6STANDARD SPANS
64	DMRC-DESIGN-AMCC-SV-254	DIMENSIONAL DETAILS OF SEGMENT S3 SPAN 37m c/c OF PIER
65	DMRC-DESIGN-AMCC-SV-255	DIMENSIONAL DETAILS OF SEGMENT S4 SPAN 37m c/c OF PIER
66	DMRC-DESIGN-AMCC-SV-256	DIMENSIONAL DETAILS OF SEGMENT S5 SPAN 37m c/c OF PIER
67	DMRC-DESIGN-AMCC-SV-257	DIMENSIONAL DETAILS OF SEGMENT SE6 SPAN 37m c/c OF PIER
68	DMRC-DESIGN-AMCC-SV-261	DIMENSIONAL DETAILS OF SEGMENT S1 AT FIXED END STANDARD SPANS SH 1 OF 2
69	DMRC-DESIGN-AMCC-SV-262	DIMENSIONAL DETAILS OF SEGMENT S1 AT FIXED END STANDARD SPANS SH 2 OF 2
70	DMRC-DESIGN-AMCC-SV-263	DIMENSIONAL DETAILS OF SEGMENT S1 AT FREE END STANDARD SPANS SH 1 OF 2
71	DMRC-DESIGN-AMCC-SV-264	DIMENSIONAL DETAILS OF SEGMENT S1 AT FREE END STANDARD SPANS SH 2 OF 2
72	DMRC-DESIGN-AMCC-SV-265	DIMENSIONAL DETAILS OF SEGMENT S2 STANDARD SPANS
73	DMRC-DESIGN-AMCC-SV-266	DIMENSIONAL DETAILS OF SEGMENT S3 STANDARD SPANS
74	DMRC-DESIGN-AMCC-SV-267	DIMENSIONAL DETAILS OF SEGMENT S4,S5,S6 STANDARD SPANS
75	DMRC-DESIGN-AMCC-SV-301	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 37m C/C OF PIER SH 1 OF 2
76	DMRC-DESIGN-AMCC-SV-302	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 37m C/C OF PIER SH 2 OF 2
77	DMRC-DESIGN-AMCC-SV-303	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 34m C/C OF PIER SH 1 OF 2

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S. No.	DESCRIPTION	DRAWING NO.
78	DMRC-DESIGN-AMCC-SV-304	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 34m C/C OF PIER SH 2 OF 2
79	DMRC-DESIGN-AMCC-SV-305	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 31m C/C OF PIER SH 1 OF 2
80	DMRC-DESIGN-AMCC-SV-306	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 31m C/C OF PIER SH 2 OF 2
81	DMRC-DESIGN-AMCC-SV-307	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 28m C/C OF PIER SH. 1 OF 2
82	DMRC-DESIGN-AMCC-SV-308	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 28m C/C OF PIER SH. 2 OF 2
83	DMRC-DESIGN-AMCC-SV-309	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 25m C/C OF PIER SH. 1 OF 2
84	DMRC-DESIGN-AMCC-SV-310	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 25m C/C OF PIER SH. 2 OF 2
85	DMRC-DESIGN-AMCC-SV-311	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 22m C/C OF PIER SH. 1 OF 2
86	DMRC-DESIGN-AMCC-SV-312	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 22m C/C OF PIER SH. 2 OF 2
87	DMRC-DESIGN-AMCC-SV-313	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 19m C/C OF PIER SH. 1 OF 2
88	DMRC-DESIGN-AMCC-SV-314	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 19m C/C OF PIER SH. 2 OF 2
89	DMRC-DESIGN-AMCC-SV-351	REINF. DETAILS OF SEGMENT S4,S5,S6 (STANDARD SPANS)SH.1 OF 2
90	DMRC-DESIGN-AMCC-SV-352	REINF. DETAILS OF SEGMENT S4,S5,S6 (STANDARD SPANS)SH.2OF 2
91	DMRC-DESIGN-AMCC-SV-353	REINF. DETAILS OF SEGMENT S3(STANDARD SPANS)SH.1OF 2
92	DMRC-DESIGN-AMCC-SV-354	REINF. DETAILS OF SEGMENT S3(STANDARD SPANS)SH.2OF 2
93	DMRC-DESIGN-AMCC-SV-355	REINF. DETAILS OF SEGMENT S2(STANDARD SPANS)SH.1OF 2
94	DMRC-DESIGN-AMCC-SV-356	REINF. DETAILS OF SEGMENT S2(STANDARD SPANS)SH.2OF 2
95	DMRC-DESIGN-AMCC-SV-357	REINF. DETAILS OF SEGMENT S1 AT FIXED END(STANDARD SPANS)SH.1OF 2
96	DMRC-DESIGN-AMCC-SV-358	REINF. DETAILS OF SEGMENT S1 AT FIXED END(STANDARD SPANS)SH.2OF 2
97	DMRC-DESIGN-AMCC-SV-359	REINF. DETAILS OF SEGMENT S1 AT FREE END(STANDARD SPANS)SH.1OF 2
98	DMRC-DESIGN-AMCC-SV-360	REINF. DETAILS OF SEGMENT S1 AT FREE END(STANDARD SPANS)SH.2OF 2
99	DMRC-DESIGN-AMCC-SV-361	DETAILS OF BOX GIRDER INSPECTION OPENING
100	DMRC-DESIGN-AMCC-SV-701	DIMENSIONS & REINFORCEMENT DETAILS OF CRASH BARRIER AROUND PIER
101	DMRC-DESIGN-AMCC-SV-702	DETAILS OF TEMPORARYBARRICADING
102	DMRC-DESIGN-AMCC-SV-703	ELASTOMERIC BEARING FOR VERTICAL LOAD DETAIL
103	DMRC-DESIGN-AMCC-SV-704	DETAILS OF PRECAST PARAPET (FOR HANGER PURPOSE ONLY) (SH 1 OF 2)
104	DMRC-DESIGN-AMCC-SV-705	DETAILS OF PRECAST PARAPET (FOR HANGER PURPOSE ONLY) (SH 2 OF 2)
105	DMRC-DESIGN-AMCC-SV-706	TYPICAL DRAINAGE DETAILS

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project.

S. No.	DESCRIPTION	DRAWING NO.
106	DMRC-DESIGN-AMCC-SV-708	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 1 OF 3)
107	DMRC-DESIGN-AMCC-SV-709	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 2 OF 3)
108	DMRC-DESIGN-AMCC-SV-710	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 3 OF 3)
109	DMRC-DESIGN-AMCC-SV-712	PRECAST PARAPET DETAILS SH.1 OF 2
110	DMRC-DESIGN-AMCC-SV-713	PRECAST PARAPET DETAILS SH.2 OF 2
111	DMRC-DESIGN-AMCC-SV-714	PRECAST PARAPET REINFORCEMENT DETAILS
112	DMRC-DESIGN-AMCC-SV-715	DETAILS OF EXPANSION JOINTS
113	DMRC-DESIGN-AMCC-SV-720	TYPICAL CROSS SECTION OF TRACK
RAMP		
114	General Arrangement of Ramp (Sheet 1 of 6)	DMRC-DESIGN-AMCC-SV-901
115	General Arrangement of Ramp (Sheet 2 of 6)	DMRC-DESIGN-AMCC-SV-902
116	General Arrangement of Ramp (Sheet 3 of 6)	DMRC-DESIGN-AMCC-SV-903
117	General Arrangement of Ramp (Sheet 4 of 6)	DMRC-DESIGN-AMCC-SV-904
118	General Arrangement of Ramp (Sheet 5 of 6)	DMRC-DESIGN-AMCC-SV-905
119	General Arrangement of Ramp (Sheet 6 of 6)	DMRC-DESIGN-AMCC-SV-906

Note:

Revised drawings mentioned at S. No. 1, 3, 6-9, 10-16, 17-23, 24-30, 31-37, 38-44 & 45-51 and new drawings mentioned at S. Nos. 9A, 9B & 9C are attached herewith in pdf format. Latest Auto Cad (updated up to Addendum-3) mentioned at S. No. 1, 3, 6-9, 10-16, 17-23, 24-30, 31-37, 38-44, 45-51, 9A, 9B & 9C are also attached herewith. Please note that for the contract administration purpose pdf format drawings shall only be considered.

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gunadala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project.

CONTRACT AMCC-01

LIST OF DRAWING

The List of Drawings issued with the tender drawings is as under:-

S.No.	DESCRIPTION	DRAWING NO.
1	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 11 OF 19 <u>Rev. R2</u>
2	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 12 OF 19
3	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 13 OF 19 <u>Rev. R1</u>
4	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 14 OF 19
5	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 15 OF 19
6	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 16 OF 19 <u>Rev. R1</u>
7	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 17 OF 19 <u>Rev. R1</u>
8	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 18 OF 19 <u>Rev. R1</u>
9	GENERAL ARRANGEMENT <u>ALIGNMENT</u> DRAWING	DMRC/DBD/CORR-2/PNBT-BP/GAD/2015 SHEET 19 OF 19 <u>Rev. R1</u>
<u>9A</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 1 OF 3 Rev. R2</u>
<u>9B</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 2 OF 3 Rev. R2</u>
<u>9C</u>	<u>GENERAL ALIGNMENT DRAWING</u>	<u>DMRC/VIJAYAWADA/BP/DEPOT/2015 SHEET 3 OF 3 Rev. R2</u>
<u>NIDAMANURU</u>		
10	DRAWING LIST	-----
11	INSERTION PLAN	AMCC-TEN-NDM-001- R0 <u>R1</u>
12	GROUND LEVEL PLAN	AMCC-TEN-NDM-002- R0 <u>R1</u>
13	CONCOURSE LEVEL PLAN	AMCC-TEN-NDM-003- R0 <u>R1</u>
14	PLATFORM LEVEL PLAN	AMCC-TEN-NDM-004- R0 <u>R1</u>

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S.No.	DESCRIPTION	DRAWING NO.
15	ROOF LEVEL PLAN	AMCC-TEN-NDM-005- R0 <u>R1</u>
16	SECTIONS	AMCC-TEN-NDM-006- R0 <u>R1</u>
<u>ENIKEPADU</u>		
17	DRAWING LIST	-----
18	INSERTION PLAN	AMCC-TEN-EKP-001- R0 <u>R2</u>
19	GROUND LEVEL PLAN	AMCC-TEN-EKP-002- R0 <u>R2</u>
20	CONCOURSE LEVEL PLAN	AMCC-TEN- EKP-003- R0 <u>R1</u>
21	PLATFORM LEVEL PLAN	AMCC-TEN- EKP-004- R0 <u>R1</u>
22	SECTIONS	AMCC-TEN- EKP-005- R0 <u>R1</u>
23	ROOF LEVEL PLAN	AMCC-TEN- EKP-006- R0 <u>R1</u>
<u>RAMAKRISHNA WEIGH BRIDGE</u>		
24	DRAWING LIST	-----
25	INSERTION PLAN	AMCC-TEN-RWB-001- R0 <u>R2</u>
26	GROUND LEVEL PLAN	AMCC-TEN- RWB-002- R0 <u>R2</u>
27	CONCOURSE LEVEL PLAN	AMCC-TEN- RWB-003- R0 <u>R1</u>
28	PLATFORM LEVEL PLAN	AMCC-TEN- RWB-004- R0 <u>R1</u>
29	SECTIONS	AMCC-TEN- RWB-005- R0 <u>R1</u>
30	ROOF LEVEL PLAN	AMCC-TEN- RWB-006- R0 <u>R1</u>
<u>PRASADAMPADU</u>		
31	DRAWING LIST	-----
32	INSERTION PLAN	AMCC-TEN-PDP-001- R0 <u>R1</u>
33	GROUND LEVEL PLAN	AMCC-TEN-PDP-002- R0 <u>R1</u>
34	CONCOURSE LEVEL PLAN	AMCC-TEN-PDP-003- R0 <u>R1</u>
35	PLATFORM LEVEL PLAN	AMCC-TEN-PDP-004- R0 <u>R1</u>
36	SECTIONS	AMCC-TEN-PDP-005- R0 <u>R1</u>

Contract: AMCC-01: Part design and construction of elevated viaduct (chainage km 6.577 to km 12.689), depot connection and six elevated stations viz., Nidamanuru, Enikepadu, Ramakrishna Weigh Bridge, Prasadam Padu, Ramavarapadu Ring and Gundala including design and construction of PEB roof and entry / exit structures of the stations of Pandit Nehru Bus Stand - Nidamanuru Corridor of Vijayawada Metro Project.

S.No.	DESCRIPTION	DRAWING NO.
37	ROOF LEVEL PLAN	AMCC-TEN-PDP-006- R0 <u>R1</u>
<u>RAMAVARAPADU RING</u>		
38	DRAWING LIST	-----
39	INSERTION PLAN	AMCC-TEN-RVR-001- R0 <u>R1</u>
40	GROUND LEVEL PLAN	AMCC-TEN-RVR-002- R0 <u>R1</u>
41	CONCOURSE LEVEL PLAN	AMCC-TEN-RVR-003- R0 <u>R1</u>
42	PLATFORM LEVEL PLAN	AMCC-TEN-RVR-004- R0 <u>R1</u>
43	SECTIONS	AMCC-TEN-RVR-005- R0 <u>R1</u>
44	ROOF LEVEL PLAN	AMCC-TEN-RVR-006- R0 <u>R1</u>
<u>GUNDALA</u>		
45	DRAWING LIST	-----
46	INSERTION PLAN	AMCC-TEN-GDL-001- R0 <u>R2</u>
47	GROUND LEVEL PLAN	AMCC-TEN-GDL-002- R0 <u>R2</u>
48	CONCOURSE LEVEL PLAN	AMCC-TEN-GDL-003- R0 <u>R1</u>
49	PLATFORM LEVEL PLAN	AMCC-TEN-GDL-004- R0 <u>R1</u>
50	SECTIONS	AMCC-TEN-GDL-005- R0 <u>R1</u>
51	ROOF LEVEL PLAN	AMCC-TEN-GDL-006- R0 <u>R1</u>
<u>TYPICAL DRAWINGS</u>		
52	DMRC-DESIGN-AMCC-SV-101	GENERAL NOTES (SHEET 1 OF 2)
53	DMRC-DESIGN-AMCC-SV-102	GENERAL NOTES (SHEET 2 OF 2)
54	DMRC-DESIGN- AMCC-SV-151	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 37.0M C/C OF PIER)
55	DMRC-DESIGN- AMCC-SV-152	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 34.0M C/C OF PIER)
56	DMRC-DESIGN- AMCC-SV-153	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 31.0M C/C OF PIER)
57	DMRC-DESIGN- AMCC-SV-154	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 28.0M C/C

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S.No.	DESCRIPTION	DRAWING NO.
		OF PIER)
58	DMRC-DESIGN- AMCC-SV-155	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 25.0M C/C OF PIER)
59	DMRC-DESIGN- AMCC-SV-156	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 22.0M C/C OF PIER)
60	DMRC-DESIGN- AMCC-SV-157	GENERAL ARRANGEMENT OF STANDARD UNIT (SPAN 19.0M C/C OF PIER)
61	DMRC-DESIGN-AMCC-SV-251	DIMENSIONAL DETAILS OF SEGMENT SE1 AT FIXED END STANDARD UNIT (SPAN 37.0 C/C OF PIER)
62	DMRC-DESIGN-AMCC-SV-252	DIMENSIONAL DETAILS OF SEGMENT S3 STANDARD SPANS
63	DMRC-DESIGN-AMCC-SV-253	DIMENSIONAL DETAILS OF SEGMENT S4,S5 & S6STANDARD SPANS
64	DMRC-DESIGN-AMCC-SV-254	DIMENSIONAL DETAILS OF SEGMENT S3 SPAN 37m c/c OF PIER
65	DMRC-DESIGN-AMCC-SV-255	DIMENSIONAL DETAILS OF SEGMENT S4 SPAN 37m c/c OF PIER
66	DMRC-DESIGN-AMCC-SV-256	DIMENSIONAL DETAILS OF SEGMENT S5 SPAN 37m c/c OF PIER
67	DMRC-DESIGN-AMCC-SV-257	DIMENSIONAL DETAILS OF SEGMENT SE6 SPAN 37m c/c OF PIER
68	DMRC-DESIGN-AMCC-SV-261	DIMENSIONAL DETAILS OF SEGMENT S1 AT FIXED END STANDARD SPANS SH 1 OF 2
69	DMRC-DESIGN-AMCC-SV-262	DIMENSIONAL DETAILS OF SEGMENT S1 AT FIXED END STANDARD SPANS SH 2 OF 2
70	DMRC-DESIGN-AMCC-SV-263	DIMENSIONAL DETAILS OF SEGMENT S1 AT FREE END STANDARD SPANS SH 1 OF 2
71	DMRC-DESIGN-AMCC-SV-264	DIMENSIONAL DETAILS OF SEGMENT S1 AT FREE END STANDARD SPANS SH 2 OF 2
72	DMRC-DESIGN-AMCC-SV-265	DIMENSIONAL DETAILS OF SEGMENT S2 STANDARD SPANS
73	DMRC-DESIGN-AMCC-SV-266	DIMENSIONAL DETAILS OF SEGMENT S3 STANDARD SPANS

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S.No.	DESCRIPTION	DRAWING NO.
74	DMRC-DESIGN-AMCC-SV-267	DIMENSIONAL DETAILS OF SEGMENT S4,S5,S6 STANDARD SPANS
75	DMRC-DESIGN-AMCC-SV-301	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 37m C/C OF PIER SH 1 OF 2
76	DMRC-DESIGN-AMCC-SV-302	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 37m C/C OF PIER SH 2 OF 2
77	DMRC-DESIGN-AMCC-SV-303	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 34m C/C OF PIER SH 1 OF 2
78	DMRC-DESIGN-AMCC-SV-304	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 34m C/C OF PIER SH 2 OF 2
79	DMRC-DESIGN-AMCC-SV-305	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 31m C/C OF PIER SH 1 OF 2
80	DMRC-DESIGN-AMCC-SV-306	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 31m C/C OF PIER SH 2 OF 2
81	DMRC-DESIGN-AMCC-SV-307	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 28m C/C OF PIER SH. 1 OF 2
82	DMRC-DESIGN-AMCC-SV-308	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 28m C/C OF PIER SH. 2 OF 2
83	DMRC-DESIGN-AMCC-SV-309	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 25m C/C OF PIER SH. 1 OF 2
84	DMRC-DESIGN-AMCC-SV-310	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 25m C/C OF PIER SH. 2 OF 2
85	DMRC-DESIGN-AMCC-SV-311	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 22m C/C OF PIER SH. 1 OF 2
86	DMRC-DESIGN-AMCC-SV-312	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 22m C/C OF PIER SH. 2 OF 2
87	DMRC-DESIGN-AMCC-SV-313	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 19m C/C OF PIER SH. 1 OF 2
88	DMRC-DESIGN-AMCC-SV-314	PRESTRESSING DETAILS OF STANDARD UNIT (SPAN 19m C/C OF PIER SH. 2 OF 2
89	DMRC-DESIGN-AMCC-SV-351	REINF. DETAILS OF SEGMENT S4,S5,S6 (STANDARD SPANS)SH.1 OF 2
90	DMRC-DESIGN-AMCC-SV-352	REINF. DETAILS OF SEGMENT S4,S5,S6 (STANDARD

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S.No.	DESCRIPTION	DRAWING NO.
		SPANS)SH.2OF 2
91	DMRC-DESIGN-AMCC-SV-353	REINF. DETAILS OF SEGMENT S3(STANDARD SPANS)SH.1OF 2
92	DMRC-DESIGN-AMCC-SV-354	REINF. DETAILS OF SEGMENT S3(STANDARD SPANS)SH.2OF 2
93	DMRC-DESIGN-AMCC-SV-355	REINF. DETAILS OF SEGMENT S2(STANDARD SPANS)SH.1OF 2
94	DMRC-DESIGN-AMCC-SV-356	REINF. DETAILS OF SEGMENT S2(STANDARD SPANS)SH.2OF 2
95	DMRC-DESIGN-AMCC-SV-357	REINF. DETAILS OF SEGMENT S1 AT FIXED END(STANDARD SPANS)SH.1OF 2
96	DMRC-DESIGN-AMCC-SV-358	REINF. DETAILS OF SEGMENT S1 AT FIXED END(STANDARD SPANS)SH.2 OF 2
97	DMRC-DESIGN-AMCC-SV-359	REINF. DETAILS OF SEGMENT S1 AT FREE END(STANDARD SPANS)SH.1OF 2
98	DMRC-DESIGN-AMCC-SV-360	REINF. DETAILS OF SEGMENT S1 AT FREE END(STANDARD SPANS)SH.2OF 2
99	DMRC-DESIGN-AMCC-SV-361	DETAILS OF BOX GIRDER INSPECTION OPENING
100	DMRC-DESIGN-AMCC-SV-701	DIMENSIONS & REINFORCEMENT DETAILS OF CRASH BARRIER AROUND PIER
101	DMRC-DESIGN-AMCC-SV-702	DETAILS OF TEMPORARYBARRICADING
102	DMRC-DESIGN-AMCC-SV-703	ELASTOMERIC BEARING FOR VERTICAL LOAD DETAIL
103	DMRC-DESIGN-AMCC-SV-704	DETAILS OF PRECAST PARAPET (FOR HANGER PURPOSE ONLY) (SH 1 OF 2)
104	DMRC-DESIGN-AMCC-SV-705	DETAILS OF PRECAST PARAPET (FOR HANGER PURPOSE ONLY) (SH 2 OF 2)
105	DMRC-DESIGN-AMCC-SV-706	TYPICAL DRAINAGE DETAILS
106	DMRC-DESIGN-AMCC-SV-708	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 1 OF 3)
107	DMRC-DESIGN-AMCC-SV-709	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 2 OF 3)
108	DMRC-DESIGN-AMCC-SV-710	TYPICAL DETAILS OF SHEAR KEY DEVICES (SHEET 3 OF 3)
109	DMRC-DESIGN-AMCC-SV-712	PRECAST PARAPET DETAILS SH.1 OF 2
110	DMRC-DESIGN-AMCC-SV-713	PRECAST PARAPET DETAILS SH.2 OF 2
111	DMRC-DESIGN-AMCC-SV-714	PRECAST PARAPET REINFORCEMENT DETAILS

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S.No.	DESCRIPTION	DRAWING NO.
112	DMRC-DESIGN-AMCC-SV-715	DETAILS OF EXPANSION JOINTS
113	DMRC-DESIGN-AMCC-SV-720	TYPICAL CROSS SECTION OF TRACK
<u>RAMP</u>		
114	General Arrangement of Ramp (Sheet 1 of 6)	DMRC-DESIGN-AMCC-SV-901
115	General Arrangement of Ramp (Sheet 2 of 6)	DMRC-DESIGN-AMCC-SV-902
116	General Arrangement of Ramp (Sheet 3 of 6)	DMRC-DESIGN-AMCC-SV-903
117	General Arrangement of Ramp (Sheet 4 of 6)	DMRC-DESIGN-AMCC-SV-904
118	General Arrangement of Ramp (Sheet 5 of 6)	DMRC-DESIGN-AMCC-SV-905
119	General Arrangement of Ramp (Sheet 6 of 6)	DMRC-DESIGN-AMCC-SV-906

Note:

Revised drawings mentioned at S. No. 1, 3, 6-9, 10-16, 17-23, 24-30, 31-37, 38-44 & 45-51 and new drawings mentioned at S. Nos. 9A, 9B & 9C are attached herewith in pdf format. Latest Auto Cad (updated up to Addendum-3) mentioned at S. No. 1, 3, 6-9, 10-16, 17-23, 24-30, 31-37, 38-44, 45-51, 9A, 9B & 9C are also attached herewith. Please note that for the contract administration purpose pdf format drawings shall only be considered.