



BID NOTICE No. 155/CGM(T)/HGCL/DGM(T)-II/500 KL(OHSR)&250KL(SUMP)/2022-23,

Date: 05-07-2022

NAME OF THE WORK:

“Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (V), Hayathnagar (M), Ranga Reddy District”.

Bid Document

**HYDERABAD GROWTH CORRIDOR LIMITED
OFFICE OF THE CHIEF GENERAL MANAGER (T)
HGCL Building, 2nd FLOOR, KAJAGUDA ROAD, ADJACENT TO ORR,
NANAKRAMGUDA, HYDERABAD -500104**

Contractor

Chief General Manager(T), HGCL

HYDERABAD GROWTH CORRIDOR LIMITED

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BID NOTICE No. 155/CGM(T)/HGCL/DGM(T)-II/500 KL(OHSR)&250KL(SUMP)/2022-23,

Date: 05-07-2022

NAME OF WORK : “Design & Construction of 500 KL Over
Head Service Reservoir (OHSR) & 250
KL Underground Sump in Koheda
Layout in Sy.No.507 of Koheda (v),
Hayathnagar (M), Ranga Reddy
District”.

NAME AND ADDRESS OF THE
CONTRACTOR WHO DOWN
LOADED THE BID DOCUMENTS.

:

Contractor

Chief General Manager(T), HGCL

STANDARD BID DOCUMENT

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HYDERABAD GROWTH CORRIDOR LIMITED

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NOTICE INVITING TENDERS (NIT)

BID NOTICE No. 155/CGM(T)/HGCL/DGM(T)-II/500 KL(OHSR)&250KL(SUMP)/2022-23,

Date: 05-07-2022

1. Tenders for the work mentioned below are invited from the Contractors / Contracting firms registered with Government of Telangana State.

1	Name of the work	:	“Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.
2	Estimate Contract value of work put to tender	:	Rs.1,39,00,000/-
3	Period of completion of work	:	06 months
4	Form of contract / class of contractor eligible	:	Lumpsum. Relevant class as per G.O. MS No. 94 Irrigation & CAD (PW_COD) Dept., dated 01-07-2003 and G.O.MS. No. 66, I& CAD Dept.,Dt.20.04.2015;
5	E.M.D. to be paid in the shape of Online payment vide Net Banking/RTGS/NEFT/Credit card/Debit card / B.G in favour of MANAGING DIRECTOR, HGCL obtained from Nationalized Bank / Scheduled Bank	:	Rs.1,39,000/- (1% of ECV) (Rupees One Lakh Thirty Nine Thousand Only).
6	Date and time for downloading of tenders	:	07-07-2022 @3.00 PM
7	Last date and time for submission of Tenders	:	18-07-2022 @ 3.00 PM
8	Date and time of opening of tenders a) Technical Bid	:	18-07-2022 @3.30 PM

Contractor

Chief General Manager(T), HGCL

2.

- a) The bidders need to contact the Chief General Manager(T), HGCL for information on e-procurement.
- b) The intending bidders need to register on the electronic procurement market place of Government of Telangana that is <https://tender.telangana.gov.in/>. On registration on the e-procurement market place they will be provided with a user ID and password by the system using which they can submit their bids on line.
- c) While registering on the e-procurement market place, bidders need to scan and upload the required documents as per the tender requirements on to their profile.
- d) Such uploaded documents need to be attached to the tender while submitting the bids.

The e-procurement market place provides an online self-service registration facility to such of the contractors who are already registered with respective participating departments for supply of specified goods and services.

3. As per G.O.Ms.No.174 I & CAD Dept., dt.1.9.2008:

- i. Submission of original Hard Copies of the uploaded scan copies of CHALLAN/BG towards EMD by participating bidders to the tender inviting authority before opening of the price bid be dispensed forthwith. (Deleted).
- ii. All the bidders shall invariably upload the scanned copies of CHALLAN/BG in e-procurement system and this will be the primary requirement to consider the bid as responsive.
- iii. The Department shall carry out the technical bid evaluation solely based on the Uploaded certificates/documents, CHALLAN/BG towards EMD in the e-procurement System and open the price bids of the responsive bidders.
- iv. The Department will notify the successful bidder for submission of original hard copies of all uploaded documents, CHALLAN/BG towards EMD prior to entering into Agreement.
- v. The successful bidder shall invariably furnish the original CHALLAN/BG towards EMD, certificates/documents of the uploaded scanned copies to the Tender inviting Authority before entering into agreement either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the

Contractor

Chief General Manager(T), HGCL

successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original CHALLAN/BG towards EMD, certificates/documents from the successful bidder before the stipulated time. On receipt of documents, the Department shall ensure the genuinity of the CHALLAN/BG towards EMD and all other certificates/ documents uploaded by the bidder in e-procurement system in support of the qualification criteria before concluding the agreement.

- vi. if any successful bidder fails to submit the original hard copies of uploaded certificates/documents, CHALLAN/BG towards EMD within the stipulated time or if any variation is noticed between the uploaded documents and the hard copies submitted by the bidder, the successful bidder will be suspended from participating in the tenders on e-Procurement platform for a period of 3 years. The e- Procurement system would deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the tender Inviting Authority in the system. Besides this, the Department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the tender process for execution of the development schemes taken up by the Government. The information to this extent may be displayed in the e-procurement platform website.

4.

- a. A minimum of 3 days time gap shall be maintained between opening of technical bids and opening of price bids.
- b. The successful (L1) tenderer shall furnish the original hard copies of all the documents/ Certificates / statements uploaded by him before concluding agreement.
- c. The tenderer shall be required to furnish a declaration in online stating that the soft copies uploaded by them are genuine. Any incorrectness / deviation noticed will be viewed seriously and apart from canceling the work duly forfeiting the EMD, criminal action will be initiated including suspension of business.
- d. Before concluding the agreement with the L1 tenderer, the tender inviting authority shall ensure the genuinity of CHALLAN/BG furnished by bidder towards EMD and all the certificates uploaded by the bidder online by deputing responsible departmental officials.
- e. The Government as further decided that notwithstanding any existing provisions of the A.P. Public works Department Code as well as other orders and executive instructions in force if any tenderer fails to submit the hard copies of CHALLAN/BG for EMD , hard copies of uploaded documents within the stipulated time the tenderer will be suspended disqualified

from participating in the tenders on 'e-procurement plat form' for a period of 12 months from the date of bid submission. The suspension of tenderer shall be automatically enforced by the e-procurement system (As per G.O.Ms. No.6 I&CAD) (PW-Reforms) Dept., dt.11.1.2005 and G.O.Ms.No.245 I&CAD (PW-Reforms) dept., dt. 30.12.2005)

5. Action to be taken against the lowest bidder, who back out at the time of Agreement, the contract Registration will be suspended for a period of One year duly forfeiting the E.M.D. as per G.O.Ms.No.259, T.R&B (Roads-V) Dept., dt.6.9.2008

6. Eligibility criteria for opening the Price Bid:

The bidder shall furnish attested copies of the following particulars online in the formats enclosed and supported by documentary evidence.

- I. The bidders should be Registered Civil Contractors, as per GOMs No 66, I&CAD dt.20-4-2015 read with G.O. MS No. 94 I&CAD dated 01-07-2003 of Govt. of Telangana. They must submit necessary documents in support of their registration.
- II. Proof of payment of EMD for an amount of Rs.1,39,000/- in favour of Managing Director, HGCL.
- III. Copy of GST Registration certificate and latest GST returns certificate of Government of Telangana. GST returns shall be for the preceding quarter i.e., three (3) months before the month of tendering.
- IV. Copy of latest Income Tax returns i.e. for AY 2022-23(FY 2021-2022) submitted to IT Dept. along with proof of its submission
- V. Liquid assets and / or credit facilities of not less than Rs. 1.39Crores (Credit facility / letter of credits / Solvency certificates from Banks)
- VI. Bid capacity computed by the formula $(2 AN - B)$ shall be greater than the ECV.

A = Maximum value of civil engineering works executed in any one year during the last 10 years (Or) Annual Turnover of any one year of last 10 years attested by Chattered Accountant.

N = Number of years prescribed for completion of works for which tenders are invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of works for which tenders are invited.

Note: The statement showing the value of existing commitments and ongoing works as well as the stipulated period of completion remaining for each of the works listed should be issued by the Engineer-in-Charge of Government department / undertaking not below the rank of Executive Engineer or equivalent and countersigned by the rank of SE or equivalent. The statement to the above effect

will be clearly enclosed to the Bidding document, and the tenderer shall furnish the particulars invariably in the same format failing which the tender shall be treated as incomplete and summarily rejected.

@ = at * Price level. Financial turnover and cost of completed works of previous years shall be given weightage of 10% per year to bring them to 2021-22, price level *

* The financial year in which bids are invited.

- VII. Executed minimum of 250 KL capacity of OHSRs/GLSRs or with a combined capacity of 125 KL of OHSRs & GLSRs in any one financial year during last ten financial years i.e., from 2011-2012 to 2021-2022
- VIII. In case of works experience certificate should be issued by the competent authority and counter signed by the Officer higher than the issuing authority showing work wise / financial year wise value of work done in respect of work executed by the tenderer during last 10 financial years, in case no higher authority is existing than issuing authority the same must be indicated in the works experience certificate.
- IX. Information regarding any litigation with Government during the last ten years, in which the bidder is involved (Litigation History) should be furnished. If there is no litigation history, a NIL report should be submitted.
- X. The tenderer should upload all the documents mentioned above during the bid Submission, failing which their Bid would be disqualified. The bidder shall be required to furnish a declaration stating that the soft copies uploaded by them are genuine. Any incorrectness / deviations noticed in the certificates will be viewed seriously and apart from cancelling the work duly forfeiting the EMD, Criminal action will be initiated including suspension of business.

7. No relaxation will be given to any of the qualification criteria.

Even though the bidder meet the above qualifying criteria, they are liable to be disqualified / debarred / suspended / blackListed if they have

- Furnished false / fabricated particulars in the forms, statements and / annexures submitted in proof of the qualification requirements and/or
- Not turned up for entering into agreement, when called upon.
- Record of poor progress such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc. and/or
- Participated in the previous bidding for the same work and had quoted unreasonably high tender percentage and
- Even while execution of the work, if found that the work was awarded to the Contractor based on false / fake certificates of experience, the Contractor will

- Be blackListed and work will be taken over invoking clause 61 of PS to APSS.
8. The price-bids of such bidders, who are determined to have complied with the above eligibility criteria, and approved by the Competent Authority/Tender Committee of HGCL will only be opened.
 9. If the office happens to be closed on the dates specified above, the respective activity will be performed at the designated time on the next working day without any notification.
 10. Any other details can be had from the Office of the Chief General Manager(T), HGCL
 11. The CGM(T), HGCL reserve the right to reject the tenders without assigning any reasons.
 12. All the bidders are requested to follow-up the e-procurement website for additional information, like addendums, and corrigendum's on <https://tender.telangana.gov.in/> and no paper publication will be issued.

INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS

A – GENERAL

Name of work Given in the Estimate: : “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

Scope of work: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

Description and location of work: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

- a) ECV put to tender: Rs. Rs.1,39,00,000/-
- b) Period of completion: 03 months
- c) SSR adopted: Common SSR of 2021-2022
- d) Details of provisions included in the ECV put to tender.
 - i) Contract profit and Overheads: @ 13.615 %
- e) The rates mentioned in Schedule “A” are inclusive of all overhead charges and include the following:
 - Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
 - Office furniture, equipment and communications
 - Expenditure on Corporate office of contractor
 - site supervision
 - Documentation and “as built” drawings
 - Mobilization/ de-mobilization of resources
 - Labour camps with minimum amenities and transportation to work sites.
 - Light vehicles for site supervision including administrative and managerial requirements.
 - Laboratory equipment and quality control including field and laboratory testing.
 - Minor T&P and survey instruments and setting outworks, including verification of line, dimensions, trial pits and bore holes, where required.
 - Watch and ward
 - Traffic management during construction
 - Expenditure on safeguarding environment
 - Sundries

Contractor

Chief General Manager(T), HGCL

- Financing Expenditure
- Sales/ Turn overtax
- Work Insurance/ compensation

The Reimbursable amounts are as follows

- a. GST applicable as per G.O Ms No.67,I&CAD(REFORMS),
Dept:04-07-2018
- b. NAC@0.10%
- c. seigniorage charges ,
- d. DMF and SMET on seigniorage charges as per rules in vogue

The recoveries amounts are as follows

- a. Labour cess@1%
- b. IT as applicable.

**The Chief General Manager(T), HGCL invites tenders for the above works vide
BID NOTICE No. 155/CGM(T)/HGCL/DGM(T)-II/500 KL(OHSR)&250KL(SUMP)/2022-23,**

Date: 05-07-2022

1.1 As per the directions issued by the Government in GO MS No.174 I&CAD (PW-REFORMS) dated 1.9.2008, submission of original hard copies of the uploaded scan copies of CHALLAN/BG towards EMD and other certificates/documents by participating bidders to the tender opening authority before opening of the price bid is dispensed with. **All the bidders shall invariably upload the scanned copies of CHALLAN/BG in e-procurement system will be the primary requirement to consider the bid as responsive. The Department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, CHALLAN/BG towards EMD and open the price bids of the responsive bidders.** The Department will notify the Successful bidder for submission of original hard copies of all uploaded documents, CHALLAN/BG towards EMD prior to entering into agreement.

1.2 The Successful bidder shall invariably furnish the original CHALLAN/BG towards EMD, Certificates/documents of the uploaded scanned copies of the tender inviting authority before entering into the agreement either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original CHALLAN/BG towards EMD, certificates/documents from the successful bidder before the stipulated time. On receipt of documents, the department shall ensure the genuinity of the CHALLAN/BG towards EMD and all other certificates/documents uploaded by the bidder in support of qualification criteria before concluding agreement.

Contractor

Chief General Manager(T), HGCL

- 1.3 If the successful bidder fails to submit the original hard copies towards EMD and other documents within the stipulated time, the successful bidder will be suspended from participating in the tenders on e-procurement for a period of three years. The e-procurement system will deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the tender inviting authority and also criminal prosecution shall be invoked
- 1.4 The tenderers shall be required to furnish a declaration in online stating that the soft copies uploaded by them are genuine. Any incorrectness / deviations noticed will be viewed seriously and apart from canceling the work duly forfeiting the EMD, Criminal action will be initiated including suspension of business.
- 1.5 The successful tenderer is expected to complete the work within the time period specified in the NIT.

1. Firms Eligible to Tender:

1.1 The Firms who

- i) Possess the valid registration in the class and category mentioned in the NIT and satisfy all the conditions therein.
 - ii) are not blackListed or debarred or suspended by the Government for whatever the reason, prohibiting them not to continue in the contracting business
 - iii) Have complied with the eligibility criteria specified in the NIT.
- Are the eligible tenderers.

Firms Ineligible to Tender:

- i) A retired officer of the Govt. of AP or Govt. of India executing works is disqualified from tendering for a period of two years from the date of retirement without the prior permission of the Government.
- ii) The Bidder who has employed any retired officer as mentioned above shall be considered as an ineligible bidder.
- iii) The contractor himself or any of his employees is found to be Gazetted Officer who retired from Government Service and had not obtained permission from the Government for accepting the contractor's employment within a period of 2 years from the date of his retirement.
- iv) The Contractor or any of his employees is found at any time after award of contract, to be such a person who had not obtained the permission of the Government as aforesaid before submission of the tender or engagement in the Contractor's service.
- v) Contractor shall not be eligible to tender for works in the division / circle where any of his near relatives are employed in the rank of Assistant Engineer or Assistant Executive Engineers and above on the Engineering side and Divisional Accounts Officer and

above on the administrative side. The Contractor shall intimate the names of persons who are working with him in any capacity or are subsequently employed. He shall also furnish a list of Gazetted /Non-Gazetted, State Government Employees related to him. Failure to furnish such information bidder is liable to be removed from the list of approved contractors and his contract is liable for cancellation.

Note: Near relatives include

1. Sons, step sons, daughters, and stepdaughters.
2. Son-in-law, and daughter-in-law.
3. Brother-in-law, and sister-in-law.
4. Brothers and Sisters.
5. Father and Mother.
6. Wife / Husband.
7. Father-in-law and Mother-in-law
8. Nephews, nieces, uncle and aunts
9. Cousins and
10. Any person residing with or dependent on the contractor.

2. Qualification data of the Bidders

2.1 As per NIT

2.2 Tenders from Joint Ventures are not acceptable unless specifically stated otherwise.

2.3 QUALIFICATION CRITERIA FOR OPENING OF THE PRICE BID.

2.4 As per NIT

No relaxation will be given to any of the qualification criteria.

2.5 Even though the bidder meet the above qualifying criteria, they are liable to be disqualified / debarred / suspended / blackListed if they have

- Furnished false / fabricated particulars in the forms, statements and / annexures submitted in proof of the qualification requirements and/or
- Not turned up for entering into agreement, when called upon.
- Record of poor progress such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc. and/or
- Participated in the previous bidding for the same work and had quoted unreasonably high tender percentage and

- Even while execution of the work, if found that the work was awarded to the Contractor based on false / fake certificates of experience, the Contractor will
- Be blackListed and work will be taken over invoking clause 61 of PS to APSS.

2.6 Tenders up to 5 % Excess will be considered as per the G.O.Ms.No.230, Dt: 13.08.2007 and the tenders with an excess of above 5% of the estimated contract value shall summarily be rejected.

2.7 For tenders up to 25% less than the estimated contract value of work, no additional security deposit is required. But for tenders less than 25% of the estimated Contract Value of work, the difference between the tendered amount and 75% of the estimated contract value, shall be paid by the successful bidder at the time of concluding agreement as an additional security to fulfill the contract through a Bank Guarantee or Demand Draft on a **Nationalized Bank / Scheduled Bank** in the prescribed format valid till completion of the work in all respects

- 2.8 a) If the percentage quoted by a bidder is found to be either abnormally high or with in the permissible ceiling limits prescribed but under collusion or due to unethical practices adopted at the time of tendering process, such tenders shall be rejected.
- b. A bidder submitting a Tender which the tender accepting authority considers excessive and or indicative of insufficient knowledge of current prices or definite attempt of profiteering will render himself liable to be debarred permanently from tendering or for such period as the tender accepting authority may decide. The tenderer overall percentage should be based on the controlled prices for the materials, if any, fixed by the Government or the reasonable prices permissible for the tenderer to charge a private purchaser under the provisions of clause-6 of the hoarding and profiteering prevention ordinance of 1943 as amended from time to time and on similar principle in regard to labour supervision on the construction.

3. One Tender per Tenderer:

3.1 Each Tenderer shall submit only one Tender for the work. A Tenderer who submits more than one Tender will cause disqualification of all the Tenders submitted by the Tenderer.

4. Cost of Tendering

4.1 The bidder shall bear all costs associated with the preparation and submission of his Tender and the tender inviting authority will in no case be responsible and liable for those costs.

5. Site Visit.

5.1 The Tenderer, at the Tenderer's own responsibility and risk is advised to visit and examine the Site of Work and its surroundings and obtain all information that may be necessary for preparing the Tender for entering into a contract, for construction of the work. The costs of visiting the site shall be at the Tenderer's own expense.

B. TENDER DOCUMENT

6. Contents of Tender document.

6.1 One set of Tender document, comprises of the following:

Technical bid

- 1) Notice Inviting Tenders (NIT)
- 2) Instruction to Tenderers
- 3) Forms of Tender and qualification information
- 4) Conditions of Contract.
- 5) Specifications
- 6) Drawings
- 7) Forms of Securities. i.e., EMD, Additional Security etc.

Price bid

Bill of Quantities and Price bid.

7. Clarification on Tender Documents

7.1 A prospective Bidder requiring any clarification on Tender documents may contact the Tender Inviting Officer at the address indicated in the NIT. The Tender Inviting Officer will also respond to any request for clarification, received through post.

Amendment to Tender Documents

7.2 Before the last date for submission of Tenders, the Tender Inviting Officer may modify any of the Contents of the Tender Notice, Tender documents by issuing amendment / Addendum.

7.3 Any addendum/amendments issued by the Tender Inviting Officer shall be part of the Tender Document and it shall be kept in online.

7.4 To give prospective Tenderers reasonable time to take an addendum into account in preparing their bids, the Tender Inviting Officer may extend if necessary, the last date for submission of tenders.

C. PREPARATION OF TENDERS.

8. Language of the Tender.

8.1 All documents relating to the tender shall be in the English Language only.

9. Documents comprising of the Tender.

9.1 The bidders who are desirous of participating in e-procurement shall submit their technical bids, price bids etc., in the standard proscribed in the tender documents, displayed at e market place. The bidders should upload the scanned copies of all the relevant certificates, documents etc., in the e market place in support of their technical bids. The bidders shall

sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.

After uploading the technical/price bid, the attested copies of the uploaded statements, certificates, documents, (except the price bid / offer) are to be submitted by the bidder to the Chief General Manager(T), HGCL so as to reach before the date of opening of the price bid. Failure to furnish any of the uploaded documents and certificates, entail rejection of the bid and forfeiture of the E.M.D. Similarly if any of the certificates, documents etc., furnished by the bidder are found to be false/fabricated/bogus, the bidder will be black listed and the E.M.D. forfeited.

The technical bids will be opened online by the Chief General Manager(T) at the time and date as specified in the tender documents. All the statements, documents, certificates, DD / BG etc., uploaded by the tenderers will be downloaded for technical evaluation. The clarifications, particulars if any required from the bidders will be obtained or in the conventional method by addressing the bidders. The technical bids will be evaluated against the specified parameters/ criteria, same as in the case of conventional tenders and the technically qualified bidders will be identified. The result of technical bid evaluation will be displayed on the e market place, which can be seen by all the bidders who participated in the tenders.

10. Bid Offer:

- 10.1 Bill of Quantities called Schedule “A” and the bid offer accompanies the tender document .It shall be explicitly understood that the Tender Inviting Officer does not accept any responsibility for the correctness or completeness of this schedule ‘A’ and this schedule ‘A’ is liable to alterations by omissions, deductions or additions at the discretion of the Chief General Manager(T) or as set forth in the conditions of the contract. The Schedule “A” shall contain the items of work indicated as part– I and LS provisions as part–II. The percentage quoted by the contractor shall be applicable only to part –I. However, the provisions contained in the part –II will be operable basing on the conditions provided in the Tender Document. The bidder will have to state clearly their willingness to execute the work at certain specific percentage of excess or less or at par of the ECV indicated in Part-I at the space provided therein in Schedule ‘A’. The L.S. amounts indicated in part-II are maximum reimbursable amounts. The bidder should however quote his lump-sum tender based on this schedule of quantities. He should quote his offer as a overall tender

percentage. The over all tender percentage should be written both in words and figures. The bid offers i.e., percentage shall be written both in figures and words legibly and free from erasures, over writings or corrections of figures. Corrections where unavoidable should be made by crossing out, and rewriting duly initializing with date.

- 10.2 The Schedule –A (or Price-bid) contains not only the quantities but also the rates worked out by the Department and the amount for each item and total value of the estimated contract. The tenderer should workout his own rates keeping in view the work, site conditions and quote his overall tender percentage with which he intends to execute the work.
- 10.3 The bid offer shall be for the whole work and not for individual items / part of the work.
- 10.4 All duties, taxes, and other levies payable by the contractor as per State / Central Government rules, shall be included in the tender percentage quoted by the bidder, however keeping in view the maximum reimbursable amounts specified in Part-II of Price bid.
- 10.5 The tendered contract amount as computed based on overall tender percentage is subject to variation during the performance of the Contract in accordance with variation in quantities etc.
- 10.6 Transaction fess payable to M/s TSTS.,
The service charges payable to M/s TSTS are as indicated below:
The participating bidders will pay transaction fee at 0.04% of ECV (Estimated Contract Value) + 18% GST on 0.03% of ECV, (The ceiling amount of transaction fee for works costing ECV up to Rs. 50.00 Crore is Rs. 10,000/- and for works costing ECV above Rs. 50.00 Crore the ceiling amount of transaction fee is Rs. 25,000/-).
All the bidders have to pay the above non-refundable service charges in the form of DD payable to **M/s TSTS** and it shall be from a **Nationalized Bank / Scheduled Bank** valid for a period of 6 months.
GST as levied by the Government of India on transaction fee, electronic payment gateway charges are to be borne by the bidders.

Charges payable to TSTS:

Contractor

Chief General Manager(T), HGCL

The successful bidder will pay further fee at 0.03% of ECV (Estimated Contract Value) payable to TSTS (The ceiling amount of transaction fee for works costing ECV up to Rs. 50.00 Crore is Rs. 10,000/- and for works costing ECV above Rs. 50.00 Crore the ceiling amount of transaction fee is Rs. 25,000/-) to create a e-procurement corpus fund to be administered by TSTS.

The above fee is payable by the successful bidder through a DD drawn in favour of M/s TSTS, Hyderabad at the time of conclusion of the agreement. The said DD shall be sent to M/s TSTS by the Chief General Manager(T) who is entering into agreement with the successful bidder. Suitable provision is made in the estimate of the concerned work to meet the above expenses by the bidder.

11. Validity of Tenders:

- 11.1 Tenders shall remain valid for a period of not less than 90 days from the last date for receipt of Tender specified in NIT.
- 11.2 During the above mentioned period no plea by the tenderer for any sort of modification of the tender based upon or arising out of any alleged misunderstanding of misconceptions or mistake or for any reason will be entertained.
- 11.3 In exceptional circumstances, prior to expiry of the original time limit, the Tender Inviting Officer may request the bidders to extend the period of validity for a specified additional period. Such request to the Tenderers shall be made in writing. A Tenderer may refuse the request without forfeiting his E.M.D. A Tenderer agreeing to the request will not be permitted to modify his Tender, but will be required to extend the validity of his E.M.D. for a period of the extension.

12. Earnest Money Deposit

- 12.1 The bidder shall furnish, Earnest Money Deposit equivalent to 1% of ECV. The CHALLAN/BG shall be from a **Nationalised Bank / Scheduled Bank** valid for a period of 6 months. Xerox copy of the CHALLAN/BG is to be scanned and uploaded in e-procurement system along with the Bid and this will be the primary requirement to consider the bid as responsive. The balance EMD of the successful bidder, 1.50% of ECV / TCV whichever is higher shall be paid along with **Insurance premium** at the time of concluding Agreement. This EMD can be in the following form
 - a) a bank demand draft on any Nationalised Bank / Scheduled Bank a bank guarantee in the form given in Section 8, from a Nationalised Bank / Scheduled Bank

- b) Demand Drafts / Bank Guarantees furnished and uploaded on line towards EMD at the time of tenders shall be valid for a period of three months from the date of tender notice.
- 12.2 The EMD of unsuccessful Bidders will be returned no sooner the tenders are finalized or end date of the Tender validity period whichever is earlier.
- 12.3 The 1% E.M.D. paid by the successful bidders in the form of BG will be discharged if the Tenderer furnishes Bank Guarantee for the full EMD of 2.50% at the time of concluding agreement.
- 12.4 The earnest money deposited by the successful tenderer will not carry any interest and it will be dealt with as provided in the conditions stipulated in the tender. The E.M.D. given in the form of Bank Guarantee on a **Nationalised Bank / Scheduled Bank shall be valid for the duration of contract period plus defect liability period of two years and in case any valid extension of contract period is granted, the validity of BG shall also be extended for the corresponding period.** The Bank Guarantee on **Nationalised Bank / Scheduled Bank** furnished by the tenderer towards additional security amount shall be valid till the work is completed in all respects.
- 12.5 The E.M.D. shall be forfeited.
- (a) if the Tenderer withdraws the Tender during the validity period of Tender.
- (b) in the case of a successful Tenderer, if he fails to sign the Agreement for whatever the reason.
- 12.6 In consideration of the Chief general Manager(T), HGCL / Tender committee undertaking to investigate and to take into account each tender and in consideration of the work thereby involved, all earnest monies deposited by the tenderer will be forfeited to HGCL in the event of such tenderer either modifying or with-drawing his tender at his instance within the said validity period of three months.

13. Signing of Tenders.

- 13.1** If the tender is made by an individual, it shall be signed with his full name and his address shall be given. If it is made by a firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, and the name and address of each member of the firm shall be given, if the tender is made by a corporation it shall be signed by a duly authorized officer who shall produce with his tender satisfactory evidence of his authorization. Such tendering corporation may be required before the contract is executed,

to furnish evidence of its corporate existence. **Tenders signed on behalf of G.P.A. holder will be rejected.**

- 13.2 The Tender shall contain no alterations or additions, except those to comply with instructions issued by the Tender Inviting Officer, or as necessary to correct errors made by the Tenderer, in which case all such corrections shall be initialed by the person signing the Tender.
- 13.3 No alteration which is made by the tenderer in the contract form, the conditions of the contract, the drawings, specifications or statements / formats or quantities accompanying the same will be recognized; and, if any such alterations are made the tender will be void.

D. SUBMISSION OF TENDERS.

14. Submission of Tenders:

- 14.1 The bidders who desire to participate in e-procurement should upload the scanned copies in the prescribed formats of tender documents, in support of eligibility in the prescribed formats of tender documents, in support of eligibility for opening of their price bid, as mentioned in the clause 25. The bidders shall sign on all the statements, documents, certificates which are uploaded by them owing responsibility for their correctness / authenticity. The documents uploaded online will only be considered for evaluation as per G.O.Ms.No.174, Irrigation & CAD (PW-Reforms) Department, Dated 1.9.2008.
- 14.2 The Department will not hold any risk and responsibility for the loss in transit during uploading of the scanned document, for the invisibility of the scanned document online, and any other problem(s) encountered by the Tenderers while submitting his bids online. Related certificates, documents etc., duly attested are to be scanned and uploaded on to the 'e'procurement platform in support of items mentioned in the document.
- 14.3 The tenderer shall invariably ensure that the following are to be furnished online :
- a) As per NIT clause 6
- 14.4 Any other condition regarding receipt of tenders in conventional method appearing in Tender document may be treated as Non-applicable.

15. Last date / time for Submission of the Tenders.

- 15.1 Tenders must be submitted on line not later than the date and time specified in NIT.
- 15.2 The Chief General Manager(T) may extend the dates for issue and receipt of Tenders by issuing an amendment in which case all rights and obligations of the Chief General Manager(T) and the Tenderers will remain same as previously.

16. Late Tenders.

16.1 Any Tender received after the last date / time prescribed in NIT will be summarily rejected.

17. Modification to the Tender.

17.1 No Tender shall be modified after the last date /time of submission of Tenders.

E. TENDER OPENING AND EVALUATION

18. Tender opening

18.1 The Technical bids will be opened online by the Chief General Manager(T), HGCL at the time and date as specified in the tender documents. All the Statements, documents, certificates, Demand Draft / Bank Guarantee etc., uploaded by the Tenderers will be verified and downloaded, for technical evaluation. The clarifications, particulars, if any, required from the bidders, will be obtained either online or in the conventional method by addressing the bidders. The technical bids will be evaluated against the specified parameters / criteria same as in the case of conventional tenders and the technically qualified bidders will be identified. The result of Technical bids evaluation will be displayed on the 'e' market place, which can be seen by all the tenderers who participated in the Tenders.

The department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, CHALLAN/BG towards EMD in the e-procurement system and open the price bids of the responsive bidders.

18.2 DELETED

18.3 DELETED.

19. Clarification on the Technical Bid.

19.1 The tender opening authority may call upon any tenderer for clarification on the statements, documentary proof relating to the technical bid. The request for clarification and response thereto shall be in writing and it shall be only on the qualification information furnished by the tenderer. The clarification called for from the tenderers shall be furnished within the stipulated time, which shall not be more than a week.

19.2 The tenderer if so desirous, shall agree in writing to furnish the clarification called for within the stipulated time and, for disqualification and rejection of his tender in the event of failure to do so.

20. Examination of technical Bids and Determination of Responsiveness

20.1 The Chief General Manager(T) will evaluate whether each Tenderer is satisfying the eligibility criteria prescribed in the tender document and declares them as a qualified Tenderer.

20.2 If the technical bid of a Tenderer is not satisfying any of the eligibility criteria it will be rejected by the Chief General Manager(T). However, the tender accepting authority detects any error in the evaluation of Tenders by Chief General Manager(T), the tender

accepting authority while returning the tenders may direct the Chief General Manager(T) as the case may be, to re-evaluate the tenders.

20.3 If any alteration is made by the tenderer in the tender documents, the conditions of the contract, the drawings, specifications or statements / formats or quantities the tender will be rejected.

21. Price Bid Opening:

21.1 At the specified date and time, the price bids of all the technically qualified bidders will be opened online by the Chief General Manager(T) and the result will be displayed on the 'e' market place which can be seen by all the bidders who participated in the Tenders.

21.2 Only the Price Bids of qualified Tenderers who's technical Bids are found satisfying the eligibility criteria shall be opened.

21.3 The Price Bid of the Unqualified Tenderers will not be opened and kept in safe custody till the tenders are finalized and thereafter E.M.D. will be returned to the tenderers.

21.4 Tenders shall be scrutinized in accordance with the conditions stipulated in the Tender document. In case of any discrepancy of non-adherence conditions the Tender accepting authority shall communicate the same which will be binding both on the tender opening authority and the Tenderer. In case of any ambiguity, the decision taken by the Tender Accepting Authority on tenders shall be final.

22. Evaluation and Comparison of Price Bids

22.1 The Chief General Manager(T) will evaluate and compare the price bids of all the qualified Tenderers.

22.2 Negotiations at any level are strictly prohibited. However, good gesture rebate, if offered by the lowest tenderer prior to finalization of tenders may be accepted by the tender accepting authority.

22.3 Selection of Tenderer among the lowest & equally quoted tenderers will be in the following orders:

- a) The tenderer whose bid capacity is higher will be selected.
- b) In case the bid capacity is also same the tenderer whose annual turnover is more will be preferred.
- c) Even if the criteria incidentally become the same, the turnover on similar works and thereafter machinery available for the work and then the clean track record will be considered for selection.

23. Discrepancy in Tender percentage quoted.

23.1 In case of any discrepancy between the overall tender percentage quoted in words and figures, the percentage quoted in words shall prevail. In case the tenderer has quoted overall tender percentage only in words and not in figures or vice versa, such tender shall be treated as incomplete and rejected.

24. Process to be Confidential.

24.1 Information relating to the examination, clarification, evaluation and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced by the tender accepting authority. Any effort by a Tenderer to influence the processing of Tenders or award decisions may result in the rejection of his Tender.

24.2 No Tenderer shall contact the Chief General Manager (T) or any authority concerned with finalization of tenders on any matter relating to its Tender from the time of the Tender opening to the time the Contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Chief General Manager(T), it should do so in writing.

24.3 Before recommending / accepting the tender, the tender recommending / accepting authority shall verify the correctness of certificates submitted to meet the eligibility criteria and specifically experience. The authenticated agreements of previous works executed by the lowest tenderer shall be called for.

24.4 Tenders will be finalized by the Executive Engineers / General Manager(T)s / Chief General Manager(T)s for the works costing up to Rs.10 Crores. The tenders for the works costing more than Rs.10 Crore will be referred to HGCL tender committee along with technical bid evaluation for consideration. The Committee of tenders shall scrutinize the tenders submitted by Engineer-in-Chief / Chief General Manager(T) / Project administrators in accordance with the conditions stipulated in the tender document and in case any discrepancy of non-adherence to the conditions, the same shall be communicated which will be binding both on the tender concluding authority and contractor. In case of any ambiguity the decision taken by the HGCL tender committee on tenders shall be final.

F. AWARD OF CONTRACT

25. Award Criteria

- 25.1 The Chief General Manager(T) will award or recommend to the Competent tender accepting authority for award of the contract to the Tenderer who is found Technically qualified as per the Tender conditions and whose price bid is lowest.
- 25.2 The tender accepting authority reserves the right to accept or reject any Tender or all tenders and to cancel the Tendering process, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the reasons for such action.

26. Notification of Award and Signing of Agreement.

- 26.1 The Tenderer whose Tender has been accepted will be notified of the award of the work by the Chief General Manager(T), prior to expiration of the Tender validity period by registered letter. This letter (hereinafter and in the Conditions of Contract called “Letter of Acceptance”) will indicate the sum that the Government will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the “Contract Amount”).
- 26.2 When a tender is to be accepted the concerned tenderer shall attend the office of the Chief General Manager(T) concerned on the date fixed in the Letter of acceptance. Upon intimation being given by the Chief General Manager(T), of acceptance of his tender, the tenderers shall make payment of the balance E.M.D., and additional security deposit wherever needed by way of Demand Draft or unconditional and irrevocable Bank Guarantee obtained from a **Nationalised Bank / Scheduled Bank** with a validity period of 2 Years 6 months, and sign an agreement in the form prescribed by the department for the due fulfillment of the contract. Failure to attend the Chief General Manager(T)’s office on the date fixed, in the written intimation, to enter into the required agreement shall entail forfeiture of the Earnest Money deposited.
- 26.3 The written agreement to be entered into between the contractor and the Government shall be the foundation of the rights and obligations of both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorized to enter into contract on behalf of the Government.
- 26.4 The successful tenderer has to sign an agreement within a period of 15 days from the date of receipt of communication of acceptance of his tender. On failure to do so his tender will

be cancelled duly forfeiting the E.M.D., paid by him without issuing any further notice and action will be initiated for black listing the tenderer.

27. Corrupt or Fraudulent Practices

27.1 The Government require that the bidders / suppliers / contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Government

(a) define for the purposes of the provision, the terms set forth below as follows:

(i) “corrupt practices” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a Government official in procurement process or in contract execution: and

(ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Government and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish in Tender prices at artificial non-competitive levels and to deprive the Government of the benefits of free and open competition.

(b) Will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

(c) Will blackList / or debar a firm, either indefinitely or for a stated period of time, if at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a Government Contract.

(d) Further more, Tenderers shall be aware of the provisions stated in the General Conditions of Contract.

**FORMS OF TENDER
QUALIFICATION INFORMATION**

Contractor

Chief General Manager(T), HGCL

QUALIFICATION INFORMATION
CERTIFICATES TO ACOMPANY THE TENDER

S.No	Description	Submitted in Cover 'A'	Page No. (see Note below)
1	2	3	4
1	Copy of Contractors valid Registration under appropriate Class with Government of Telangana. G.O.MS. No. 66,I& CAD Dept.,Dt.20.04.2015 or G.O.MS. No. 94,I& CAD(PW-COD) Dept.,Dt.01.07.2003	Yes / No	
2	Copy of Permanent Account Number (PAN) Card and copy of latest Income Tax returns(2021-22) submitted along with proof of receipt.	Yes / No	
3	EMD in the form of /ONLINE PAYMENT/CHALLAN/BG (Scanned copy)	Yes / No	
4	GST Registration Certificate	Yes / No	
5	Details of maximum values of civil engineering works executed in any one year during last ten years Or Annual Turnover of any one year of last 10 years attested by Chattered Accountant	Yes / No	
8	Details of existing commitments i.e., works on hand with Supporting Certificates.	Yes / No	
10	Litigation history	Yes / No	
12	Proof of Liquid assets in the shape of Solvency certificate for the required amount.	Yes / No	
13	Any other document as per NIT	Yes / No	

Note:

- All the copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate, which will be indicated in column (4) against each item.
- The information shall be filled-in by the Tenderer in the above table and statements-I to VII, and shall be enclosed to the Technical bid for the purposes of verification as well as evaluation of the tenderers .
- As per the directions issued by the Government in GO MS No.174 I&CAD (PW-REFORMS) dated 1.9.2008, submission of original hard copies of the uploaded scan copies of CHALLAN/BG towards EMD by participating bidders to the tender opening authority before opening of the price bid is dispensed with. All the bidders shall invariably upload the scanned copies of CHALLAN/BG in e-procurement system will be the primary requirement to consider

Contractor

Chief General Manager(T), HGCL

the bid as responsive. The Department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, CHALLAN/BG towards EMD and open the price bids of the responsive bidders. The Department will notify the Successful bidder for submission of original hard copies of all uploaded documents, CHALLAN/BG towards EMD prior to entering into agreement. If any successful bidder fails to submit the original hard copies towards EMD and other documents with in the stipulated time, the successful bidder will be suspended from participating in the tenders on e-procurement for a period of three years. The e-procurement system will deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the tender inviting authority and also criminal prosecution shall be invoked.

DECLARATION

I / We have gone through carefully all the Tender conditions and solemnly declare that I / we will abide by any penal action such as disqualification or black listing or determination of contract or any other action deemed fit, taken by, the Department against us, if it is found that the statements, documents, certificates produced by us are false / fabricated.

I / We hereby declare that, I / We have not been blackListed / debarred / Suspended / demoted in any department in Andhra Pradesh or in any State due to any reasons.

Signature of the Tenderer

STATEMENT – I

Details of value of Civil Engineering works executed in each year during the last Ten financial years by the Tenderer.

S. No	Financial Year	Value in Rs.
1	2	3
1	2012-2013	
2	2013-2014	
3	2014-2015	
4	2015-2016	
5	2016-2017	
6	2017-2018	
7	2018-2019	
8	2019-2020	
9	2020-2021	
10	2021-2022	

Contractor

Chief General Manager(T), HGCL

a) Attach certificate(s) issued by the Executive Engineer concerned and counter signed by Superintending Engineer showing work wise / year wise value of work done in respect of all the works executed by the Tenderer during last ten (10) years

OR

b) Certificate from Chartered Accountant supported with Annual Balance Sheet tallying with I.T. Clearance certificate.

Signature of the Tenderer

STATEMENT – II

Details of similar works completed in the Name of the Tenderer during the last ten financial years.

Sl.no	Name of work	Address of Agt. Concluding authority	Agt. No. & Date	Value of contract	Stipulated period of completion	Value of work done during last 10 years.	Total value of work done
1	2	3	4	5	6	7	8

Attach certificates issued by the Executive Engineer concerned and countersigned by superintending Engineer

Signature of the Tenderer

STATEMENT – III

Physical quantities executed by the Tenderer in the last ten financial years. [Work wise / year wise].

Financial year	Name of work	Quantities Executed year wise							PCC/RCC
		Excavation in soil/ordinary rock/hard rock	Construction of Embankment/Sub grade	Granular Sub base/WM M	HYSD /TMT/ Structural steel	DGBM/ BC	Manufacture & Supply, Lowering & Jointing of SWG/RCC pipes of 300 mm and above dia	Manufacture & Supply, Laying & Jointing of C.I/D.I pipes of 200 mm and above dia	

Contractor

Chief General Manager(T), HGCL

Attach certificates issued by the Executive Engineer concerned and countersigned by
superintending Engineer

Signature of the Tenderer

STATEMENT – IV

Details of Existing Commitments.

Details of works on hand and, yet to be completed as on the date of submission of the
Tender and works for which Tenders have been submitted are to be furnished.

A) Existing Commitments on ongoing works:

Sl.No	Name of work	Address of Agt. Concluding authority	Agt. No. & Date	Value of contract	Stipulated period of completion	Value of work done so far.	Balance Value of works to be completed	Anticipated date of completion	Updated value of balance work
1	2	3	4	5	6	7	8	9	10

Attach certificates issued by the Executive Engineer concerned and countersigned by
superintending Engineer, indicating the balance work to be done, and likely period of completion.

Signature of the Tenderer

B) Details of works for which Tenders are submitted [awarded / likely to be awarded]

S.No	Name of work	Address of Agt. Concluding authority	Estimated value of work	Stipulated period of completion	Date on which tender was submitted	Present stage of Tender.
1	2	3	4	5	6	7

Signature of the Tenderer

Contractor

Chief General Manager(T), HGCL

STATEMENT – V

Availability of Critical Equipment

The tenderer should furnish the information required below, regarding the availability of the equipment, required for construction / quality control.

Sl. No.	Details of Equipment	Number required	Number	
			Owned	Leased
1	2	3	4	5

Signature of the Tenderer

(A declaration regarding the equipment owned shall be produced by the Tenderer on a non-judicial stamp paper of Rs. 100/- as below;)

DECLARATION

“I do hereby solemnly affirm and declare that I /we own the following equipment for using on the subject work and also declare that I / We will abide by any action such as disqualification or determination of Contract or blackListing or any action deemed fit, if the department detects at any stage that I/we do not possess the equipment listed below.

S.No	Details of each Equipment	Year of purchase	Regn. Number	Capacity	Any other data.	Is it in working condition
1	2	3	4	5	6	7

The tenderer has to submit either a certificate issued by the Executive Engineer or a Declaration on Non-judicial stamp paper worth Rs. 100/- as prescribed in Statement-V given above with sufficient proof of document in support of owning such as Invoice / certificate of registration by competent authority in support of the critical equipment.

Contractor

Chief General Manager(T), HGCL

STATEMENT – VI.

Availability of Key Personnel

Qualification and experience of Key Personnel proposed to be deployed for execution of the Contract.

Sl. No	Name	Designation	Qualification	Total Experience	Working with the Tenderer since.
1	2	3	4	5	6

Signature of the Tenderer

STATEMENT - VII

Information on litigation history in which Tenderer is the Petitioner.

S. No	Case No. / Year	Court where filed.	Subject Matter / Prayer in the case.	Respondents i.e., SE / CE	Present Stage.
1	2	3	4	5	6

Signature of the Tenderer

Contractor

Chief General Manager(T), HGCL

CONDITIONS OF CONTRACT

Contractor

Chief General Manager(T), HGCL

TENDER

Date:

To
The Chief General Manager(T),
HGCL.
Sir,

I / We do hereby tender and if this tender be accepted, under take to execute the following work viz “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District” as shown in the drawings and described in the specifications deposited in the office of the Chief General Manager(T), HGCL Hyderabad with such variations by way of alterations or additions to, and omissions from the said works and method of payment as provided for in the “conditions of the contract” for the sum of Rs.1,39,00,000/- or such other sum as may be arrived under the clause of the standard preliminary specifications relating to “Payment on lump-sum basis or by final measurement at unit rates”

I/WE have also quoted percentage excess or less on E.C.V., in Schedule ‘A’ Part-I, annexed (in words and figures) for which I/We agree to execute the work when the lumpsum payment under the terms of the agreement is varied by payment on measurement quantities.

I/WE have quoted Percentage excess or less on E.C.V., in Schedule ‘A’ Part – I both in words & figures. In case of any discrepancy between the Percentage excess or less on E.C.V., in words and figures, the rates quoted words only shall prevail.

I/WE agreed to keep the offer in this tender valid a period of Two month(s) mentioned in the tender notice and not to modify the whole or any part of it for any reason within above period. If the tender is withdrawn by me/us for any reasons whatsoever, the earnest money paid by me/us will be forfeited to Government

I/WE hereby distinctly and expressly, declare and acknowledge that, before the submission of my/our tender I/We have carefully followed the instructions in the tender notice and have read the A.P.S.S. and the preliminary specifications therein and the A.P.S.S. addenda volume and that I/We have made such examination of the contract documents and the plans, specifications and quantities and of the location where the said work is to be done, and such investigation of the work required to be done, and in regard to the material required to be furnished as to enable me/us to thoroughly understand the intention of same and the requirements, covenants, agreements, stipulations and restrictions contained in the contract, and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the Government based upon or arising out of any alleged misunderstanding or misconception /or mistake on my/or our part of the said requirement, covenants, agreements, stipulations, restrictions and conditions.

I/WE agree that earnest money does not bear any interest.

Contractor

Chief General Manager(T), HGCL

I/WE shall not assign the contractor or sublet any portion of the same except the conditions in clause 5.1 of conditions of contract – General - A. In case if it becomes necessary such subletting with the permission of the Chief General Manager(T), HGCL shall be limited to (1) Labour contract, (2) Material contract, (3) Transport contract and (4) Engaging specialists for special item of work enjoined in A.P.S.S.

IF MY/OUR tender is not accepted the sum shall be returned to me/us on application when intimation is sent to me/us of rejection or at the expiration of three months from last date of receipt of this tender, whichever is earlier. If my/our tender is accepted the earnest money shall be retained by the Government as security for the due fulfillment of this contract. If upon written intimation to me/us by the Chief Engineer's Office, I/We fail to attend the said office on the date herein fixed or if upon intimation being given to me/us by the Chief Engineer or acceptance of my/our tender, and if I/We fail to make the additional security deposit or to enter into the required agreement as defined in condition-3 of the tender notice, then I/We agree the forfeiture of the earnest money.

Any notice required to be served on me/us here under shall be sufficiently served on me/us if delivered to me/us hereunder shall be sufficiently served on me/us if delivered to me/us personally or forwarded to me/us by post to (registered or ordinary) or left at my/our address given herein. Such notice shall if sent by post be deemed to have been served on me/us at the time when in due course of post it would be delivered at the address to which it is sent.

I/WE fully understand that the written agreement to be entered into between me/us and Government shall be the foundation of the rights of the both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by me/us and then by the proper officer authorised to enter into contract on behalf of Government.

I/We agree to pay transaction fee @ 0.03% of ECV (Estimated Contract value) +12.36% service tax over transaction fee with a cap of Rs.10,000/- (Rupees Ten thousand only) for all works with ECV upto Rs.50.00 cores and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50.00 crores, at the time of bid submission electronically. For tenders wherever ECV is not available, i.e., for goods and services, the transaction fee shall be calculated on quoted value.

I/We agree to pay Service tax as levied by the GOI on transaction fee, electronic payment gateway charges.

I AM/WE ARE professionally qualified and my/our qualifications are given below:

Name	Qualified

I/WE will employ the following technical staff for supervising the work and will see that one of them is always at site during working hours, personally checking all items of works and pay extra attention to such works as required special attention (eg) Reinforced concrete work.

Contractor

Chief General Manager(T), HGCL

Name of members of technical staff proposed to be employed	Qualification.
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I / WE declare that I/WE agree to recover the salaries of the technical staff actually engaged on the work by the department, from the work bills, if I/We fail to employ technical staff as per the tender condition.

TENDERERS / CONTRACTOR'S CERTIFICATE.

- (1) I/WE hereby declare that I/We have perused in detail and examined closely the Telangana Standard Specifications, all clauses of the preliminary specifications with all amendments and have either examined all the standards specifications or will examine all the standard specifications for items for which I/We tender, before I/We submit such tender and agree to be bound and comply with all such specifications for this agreement which I/We execute in the Hyderabad Growth Corridor Limited Department.
- (2) I/WE certify that I/We have inspected the site of the work before quoting my Percentage excess or less on ECV, I /We have satisfied about the quality, availability and transport facilities for stones sand and other materials.
- (3) I/WE am/are prepared to furnish detailed data in support of all my quoted rates, if and when called upon to do so without any reservations.
- (4) I/WE hereby declare that I/We will pay an additional security deposit in terms of conditions 3.6 of Instructions to tenderers
- (5) I/WE hereby declare that I am/we are accepting to reject my tender in terms of condition 3.7 of instructions to tenderers
- (6) I/WE hereby declare that I am/We are accepting for the defect liability period as 24 months
- (7) I/WE declare that I/WE will procure the required construction materials including earth and use for the work after approval of the Engineer-in-Charge. The responsibility for arranging and obtaining the land for borrowing or exploitation in any other way shall rest with me/us for the materials for construction, I/WE shall ensure smooth and un-interrupted supply of materials.
 - a) I/WE declare that the responsibility for arranging and obtaining the land for disposal of spoil/soil not useful for construction purposes shall rest with me/us.

Contractor

Chief General Manager(T), HGCL

- b) I/WE declare that I/WE shall not claim any compensation or any payment for the land so arranged for disposal of soil and the land for borrow area. My/our quoted percentage excess or less ECV., are inclusive of the land so arranged and I/We will hand over the land so arranged for disposal of soil to; the department after completion of work.
- c) I/WE declare that I/WE will not claim any extra amount towards any material used for the work other than the quoted works for respective schedule 'A' items.
- (8) I/WE declare that I/WE will execute the work as per the mile stone programme, and if I/WE fail to complete the work as per the mile stone programme I abide by the condition to recover liquidated damages as per the tender conditions.
- (9) I/WE declare that I/WE will abide for settlement of disputes as per the tender conditions.

DECLARATION OF THE TENDERER.

- 1) I/WE have not been black listed in any department in Telangana due to any reasons.
- 2) I/WE have not been demoted to the next lower category for not filing the tenders after buying the tender schedules in a whole year and my/our registration has not been cancelled for a similar default in two consecutive years.
- 3) I/WE agree to disqualify me/us for any wrong declaration in respect of the above and to summarily reject my/our tender.

Address of the Tenderer :

Phone No.:

Fax No.:

CONTRACTOR.

Note: If the tender is made by an individual, it shall be signed with his full name and his address shall be given. If it is made by a firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, and the name and address of each member of the firm shall be given, if the tender is made by a corporation it shall be signed by a duly authorized officer who shall produce with his tender satisfactory evidence of his authorization. Such tendering corporation may be required before the contract is executed, to furnish evidence of its corporate existence. Tenders signed on behalf of G.P.A. holder will be rejected

Contractor

Chief General Manager(T), HGCL

CONDITIONS OF CONTRACT

A. GENERAL

1. Interpretation:

1.1 In interpreting these Conditions of Contract, singular also means plural, male also means female, and vice-versa. Headings have no significance. Works have their normal meaning under the language of the contract unless specifically defined. The Engineers-in-charge will provide instructions clarifying queries about the conditions of Contract.

1.2 The documents forming the Contract shall be interpreted in the following order of priority:

- 1) Agreement
- 2) Letter of Acceptance, notice to proceed with the works
- 3) Contractor's Tender (Technical bid)
- 4) Conditions of contract
- 5) Specifications
- 6) Drawings
- 7) Bill of quantities (Price-bid)
- 8) Any other document listed as forming part of the Contract.

2. Engineer-in-Charge's Decisions:

2.1 Except where otherwise specifically stated, the Engineer-in-charge will decide the contractual matters between the Department and the contractor in the role representing the Department.

3. Delegation:

3.1 The Engineer-in-charge may delegate any of his duties and responsibilities to other officers and may cancel any delegation by an official order issued.

4. Communications:

4.1 Communications between parties, which are referred to in the conditions, are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act)

5. Sub-contracting:

5.1 If the prime contractor desires to sub-let a part of the work, he should submit the same at the time of filing tenders itself or during execution, giving the name of the proposed Sub-contractor, along with details of his qualification and experience. The Tender Accepting Authority should verify the experience of the Sub-contractor and if the Sub-contractor satisfies the qualification criteria in proportion to the value of work proposed to be sub-let, he may permit the same. The total value of works to be awarded on sub-letting shall not exceed 50% of contract value. The extent of subletting shall be added to the experience of the sub-contractor and to that extent deducted from that of the main contractor.

6. Other Contractors:

6.1 The Contractor shall cooperate and share the Site with other contractors, Public authorities, utilities, and the Department. The Contractor shall also provide facilities and services for them as directed by the Engineer-in-charge.

7. Personnel:

- 7.1 The Contractor shall employ the required Key Personnel named in the Schedule of Key Personnel to carry out the functions stated in the Schedule or other personnel approved by the Engineer-in-charge. The Engineer-in-charge will approve any proposed replacement of Key Personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.
- 7.2 Failure to employ the required technical personnel as per agreement by the contractor, amount will be recovered from the contractors bills towards technical personnel as per SSR 2020-21.
- 7.3 The technical personnel should be on full time and available at site whenever required by Engineer in Charge to take instructions.
- 7.4 The names of the technical personnel to be employed by the contractor should be furnished in the statement enclosed separately.
- 7.5 In case the contractor is already having more than one work on hand and has undertaken more than one work at the same time, he should employ separate technical personnel on each work.
- 7.6 If the contractor fails to employ technical personnel the work will be suspended or department will engage a technical personnel and recover the cost thereof from the contractor.
- 7.7 If the Engineer-in-charge asks the contractor to remove a person who is a member of Contractor's staff or his work force stating the reasons the Contractor shall ensure that the person leaves the site forthwith and has no further connection with the work in the contract.

8. Contractor's Risks:

- 8.1 All risks of loss of or damage to physical property and of personnel injury and death, which arise during and in consequence of the performance of the contract are the responsibility of the contractor.

9. Insurance:

- 9.1 The Contractor shall provide, in the joint names of the Department and the contractor, insurance cover from the Start Date to the end of the Defects Liability Period i.e., 24 months after completion for the following events which are due to the Contractor's risks.
- a) loss of or damage to the Works, Plant and Materials;
 - b) loss of or damage to the Equipment;
 - c) loss of or damage of property in connection with the Contract; and
 - d) Personal injury or death of persons employed for construction.
- 9.2 Policies and certificates of insurance shall be delivered by the Contractor to the Engineer-in-charge at the time of concluding Agreement. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred.

- i) The contractor shall furnish insurance policy in force in accordance with proposal furnished in the Tender and approved by the Department for concluding the agreement.
- ii) The contractor shall also pay regularly the subsequent insurance premia and produce necessary receipt to the Engineer-in-Charge, well in advance.
- iii) In case of failure to act in the above said manner the department will pay the premium and the same will be recovered from the Contractors payments.

9.3 Alterations to the terms of insurance shall not be made without the approval of the Engineer-in-Charge.

10. Site Inspections:

10.1 The contractor should inspect the site and also proposed quarries of choice for materials source of water and quote his percentage including quarrying, conveyance and all other charges etc.

10.2 The responsibility for arranging the land for borrow area rests with the Contractor and no separate payment will be made for procurement or otherwise. The contractor's quoted percentage will be inclusive of land cost.

11. Contractor to Construct the Works:

11.1 The Contractor shall construct and Commission the Work in accordance with the specifications and Drawings.

12. Diversion of streams / Vagus / Drains.

12.1 The contractor shall at all times carry out construction of cross drainage works in a manner creating least interference to the natural flow of water while consistent with the satisfactory execution of work. A temporary diversion shall be formed by the contractor at his cost where necessary. No extra payment shall be made for this work.

12.2 No separate payment for bailing out sub-soils, water drainage or locked up rain water for diversion, shoring, foundations, bailing of pumping water either from excavation of soils from foundations or such other incidental will be paid. The percentage to be quoted by the contractor are for the finished item of work in situ and including all the incidental charges. The borrow pits are also to be de-watered by the contractor himself at his expense, if that should be found necessary.

12.3 The work of diversion arrangements should be carefully planned and prepared by the contractor and forwarded to the Deputy General Manager(T) technically substantiating the proposals and approval of the Deputy General Manager(T) obtained for execution.

12.4 The contractor has to arrange for bailing out water, protection to the work in progress and the portion of works already completed and safety measures for men and materials and all necessary arrangements to complete the work.

12.5 All the arrangements so required should be carried out and maintained at the cost of the contractor and no separate or additional payments is admissible.

Contractor

Chief General Manager(T), HGCL

- 12.6 **Coffer Dams.**
Necessary coffer dams and ring bunds have to be constructed at the cost of contractor and same are to be removed after the completion of the work. The contractor has to quote his percentage keeping the above in view.
- 13. Power Supply.**
- 13.1 The contractor shall make his own arrangements for obtaining power from the Electricity dept., at his own cost. The contractor will pay the bills of Electricity Department for the cost of power consumed by him.
- 13.2 The contractor shall satisfy all the conditions and rules required as per Indian Electricity Act 1910 and under Rule-45(I) of the Indian Electricity Rules, 1956 as amended from time to time and other pertinent rules.
- 13.3 The power shall be used for bonafide Departmental work only.
- 14. Temporary Diversions (Works on Roads / Highways)**
- 14.1 The contractor shall at all times carryout work on the Road / Highway in a manner creating least interference to the flow of traffic while consistent with the satisfactory execution of the same. For all works involving improvements to the existing Road / Highway, the contractor shall in accordance with the directions of the Engineer-in-charge provide and maintain during the execution of the work a passage for traffic, either along a part of the existing carriage way under improvement or along a temporary diversion constructed close to the Road / Highway.
- 14.2 If in the opinion of the Engineer-in-Charge, it is not possible to pass the traffic on part width of the carriageway for any reason, a temporary diversion close to the Road / Highway shall be constructed as directed. It shall be paved with the materials such as hard morrum, gravel and stone, metal to the specified thickness as directed by the Engineer-in-Charge. In all cases, the alignment, gradients and surface type of the diversion including its junctions, shall be approved by the Engineer-in-charge before the Road / Highway is closed to traffic.
- 14.3 The contractor shall take all necessary measures for the safety of traffic during construction and provide erect and maintain such barricades, including signs, markings, flags lights and information and protection of traffic approaching or passing through the section of the Road / Highway under improvement. Before taking up any construction, an agreed phased programme for the diversion of traffic on the Road / Highway shall be drawn up in consultation with the Engineer-in-charge.
- 14.4 The barricades erected on either side of the carriage way portion of the carriage way closed to traffic, shall be of strong design to resist violation and painted with alternative black and white stripe. Red lanterns or warnings lights of similar type shall be mounted on the barricades at night and kept lit throughout from sunset to sunrise.
- 15. Ramps:**
Ramps required during execution may be formed wherever necessary and same are to be removed after completion of the work. No separate payment will be made for this purpose.
- 16. Monsoon Damages:**

Damages due to rain or flood either in cutting or in banks shall have to be made good by the contractor till the work is handed over to the Department. The responsibility of de-silting and making good the damages due to rain or flood rests with the contractor. No extra payment is payable for such operations and the contractor shall therefore, have to take all necessary precautions to protect the work done during the construction period.

17. The works to be completed by the intended completion date:

17.1 The contractor may commence execution of the works on the start date and shall carry out the works in accordance with the programme submitted by the contractor, as updated with the approval of the Engineer-in-Charge, and complete the work by the Intended completion date.

18. Safety:

18.1 The Contractor shall be responsible for the safety of all activities on the site.

19. Discoveries:

19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Government. The Contractor is to notify the Engineer-in-charge of such discoveries and carry out the Engineer-in-Charge's instructions for dealing with them.

20. Possession of the Site.

20.1 The Department shall give possession of the site to the Contractor. If possession of a part site is given, the Department will ensure that the part site so handed over is amenable to carryout the work at site by the Contractor.

21. Access to the Site:

21.1 The Contractor shall provide the Engineer-in-Charge and any person authorised by the Engineer-in-Charge, access to the site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

22. Instructions:

22.1 The Contractor shall carry out all instructions of the Engineer-in-charge and comply with all the applicable local laws where the Site is located.

23. Settlement of disputes:

23.1 If any dispute of difference of any kind whatsoever arises between the department and the Contractor in connection with, or arising out of the Contract, whether during the progress of the works or after their completion and whether before or after the termination, abandonment or breach of the Contract, it shall in the first place, be referred to and settled by the Engineer-in-charge who shall, within a period of thirty days after being requested by the Contractor to do so, give written notice of his decision to the Contractor. Upon receipt of the written notice of the decision of the Engineer-in-Charge the Contractor shall promptly proceed without delay to comply with such notice of decision.

23.2 If the Engineer-in-Charge fails to give notice of his decision in writing within a period of thirty days after being requested or if the Contractor is dissatisfied with the notice of the decision of the Engineer-in-Charge, the Contractor may within thirty days after receiving the notice of decision appeal to the Department who shall offer an opportunity to the

contractor to be heard and to offer evidence in support of his appeal, the Department shall give notice of his decision within a period of thirty days after the Contractor has given the said evidence in support of his appeal, subject to arbitration, as hereinafter provided. Such decision of the Department in respect of every matter so referred shall be final and binding upon the Contractor and shall forthwith be given effect to by the Contractor, who shall proceed with the execution of the works with all due diligence whether he requires arbitration as hereinafter provided, or not. If the Department has given written notice of his decision to the Contractor and no claim to arbitration, has been communicated to him by the Contractor within a period of thirty days from receipt of such notice the said decision shall remain final and binding upon the Contractor. If the Department fail to give notice of his decision, as aforesaid within a period of thirty days after being requested as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the contractor within thirty days after the expiration of the first named period of thirty days as the case may be, require that the matter or matters in dispute be referred to arbitration as detailed below:

SETTLEMENT OF CLAIMS:

Settlement of claims for Rs. 50,000/- and below by Arbitration.

All disputes or difference arising of or relating to the contract shall be referred to the adjudication as follows:

- a) Claims up to a value of rupees 10,000 / - : General Manger(T), HGCL.
- b) Claims above value of rupees 10,000/- and up to rupees 50,000/- : Chief General Manager(T),HGCL.

The arbitration shall be conducted in accordance with the provisions of Indian Arbitration and Conciliation Act 1996 or any statutory modification thereof.

The arbitrator shall state his reasons in passing the award.

Claims above Rs.50,000/-.

All claims of above Rs.50,000/- are to be settled by a Civil Court of Hyderabad jurisdiction by way of Civil suit and not by arbitration.

A reference for adjudication under this clauses shall be made by the contractor within six months from the date of intimating the contractor of the preparation of final bill or his having accepted payment which ever is earlier.

B. TIME FOR COMPLETION

24. Program:

- 24.1 The total period of completion is Three (3) months from the date of entering with agreement to proceed including rainy season.
- 24.2 The attention of the Contractor is directed to the contract requirement at the time of beginning of the work, The rate of progress and proportionate value of work done from time to time as will be indicated by the Deputy General Manager(T)'s Certificate for the value of work done will be required. Date of commencement of their programme will be the date for concluding agreement but not the date of handing over site.
- 24.3 After signing the agreement, the contractor shall forthwith begin the work, shall regularly and continuously proceed with them.

24.4 Rate of progress:

- i) Work programme of achieving the stones (Statement I attached).

Mile stone No.	Period from the date of signing agreement	Minimum percentage of work to be completed(Cumulative)
Milestone-1	End of 2 months	40%
Milestone-2	End of 4 months	70%
Milestone-3	End of 6 months	100%

- ii) Site schedule of programme of handing over site to the contractor.
iii) The contractor shall achieve the financial progress, otherwise Liquidated Damages shall be levied as per the condition No.50.3 of conditions of contract.

24.5 The contractor shall commence the works on site within the period specified under condition 11.1 to 13.3 above after the receipt by him of a written order to this effect from the Chief General Manager(T) and shall proceed with the same with due expedition and without delay, except as may be expressly sanctioned or ordered by the Chief General Manager(T).

24.6 Save in so far as the contractor may prescribe, the extent of portions of the site of which the contractor is to be given possession from time to time and the order in which such portions shall be made available to him and, Subject to any requirement in the contract as to the order in which the works shall be executed, the Chief General Manager(T) will, with the Deputy General Manager(T)'s written order to commence the works, give to the contractor possession of so much of the site as may be required to enable the contractor to commence proceed with the execution of the works in accordance with the programme if any, and otherwise in accordance with such reasonable proposals of the contractor as he shall by written notice to the Chief General Manager(T), make and will from time to time as the works proceed, give to the contractor possession of such further portions of the site as may be required to enable the contractor to proceed with the execution of the works with due dispatch in accordance with the said programme or proposals as the case maybe ; if the contractor suffers delay or incurs cost from failure on the part of the Chief General Manager(T) to give possession in accordance with the terms of this clause, the Chief General Manager(T) shall grant an extension of time for the completion of works.

24.7 The contractor shall bear all costs and charges for special or temporary way leases required by him in connection with access to the site. The contractor shall also provide at his own cost any additional accommodation outside the site required by him for the purposes of the work.

24.8 Subject to any requirement in the contract as to completion of any section of the works before completion of the whole of the works shall be completed in accordance with provisions of clauses in the Schedule within the time stated in the contract calculated from the last day of the period named in the statement to the tender as that within which the works are to be commenced or such extended time as may be allowed.

24.9 Delays and extension of time:

No claim for compensation on account of delays or hindrances to the work from any cause whatever shall lie, except as hereafter defined. Reasonable extension of time will be

allowed by the officer competent to sanction the extension, for unavoidable delays, such as may result from causes, which in the opinion of the Deputy General Manager(T), are undoubtedly beyond the control of the contract. The Deputy General Manager(T) shall assess the period of delay or hindrance caused by any written instructions issued by him, at twenty five percent in excess of the actual working period so lost.

In the event of the Deputy General Manager(T) failing to issue necessary instructions and thereby causing delay and hindrance to the contractor, the latter shall have the right to claim an assessment of such delay by the Chief General Manager(T) of the Circle whose decision will be final and binding. The contractor shall lodge in writing with the Deputy General Manager(T) a statement of claim for any delay or hindrance referred to above, within fourteen days from its commencement, otherwise no extension of time will be allowed.

Whenever authorized alterations or additions made during the progress of the work are of such a nature in the opinion of the Deputy General Manager(T) as to justify an extension of time in consequence thereof.

If there are valid reasons for extending the contract period, proposals for extension of time should be sent to the authority competent to accord sanction of Extension of Agreement time sufficiently in advance and in any case at least one month before the expiry of the contract period.

25. Construction Programme:

- 25.1 The Contractor shall furnish within fortnight of the order of the work a programme showing the sequence in which he proposed to carry out the work, monthly progress expected to be achieved, also indicating date of procurement of materials plant and machinery. The schedule should be such that it is practicable to achieve completion of the whole work within the time limit fixed and in keeping with the Mile stone programme specified and shall obtain the approval of the Engineer-in-charge. Further rate of the progress as in the program shall be kept up to date. In case it is subsequently found necessary to alter this program, the contractor shall submit sufficiently in advance the revised program incorporating necessary modifications and get the same approved by the Engineer - in - Charge. No revised program shall be operative without the approval of Engineer - in - Charge.
- 25.2 The Chief General Manager(T), shall all times have the right, without any way violating this contract, or forming grounds for any claim, to alter the order of progress of the works or any part thereof and The contractor shall after receiving such directions proceed in the order directed. The contractor shall also report the progress to the Chief General Manager(T) with in 7 days of the Deputy General Manager(T)s direction to alter the order of progress of works.
- 25.3 The contractor shall give written notice to the Engineer - in - Charge whenever planning or progress of the works is likely to be delayed on disrupted unless any further drawings or order including a direction, instruction or approval is issued by the Engineer - in - Charge within a reasonable time. The notice shall include details of the drawing or order required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

26. Speed of Work

- 26.1 The Contractor shall at all times maintain the progress of work to conform to the latest operative progress schedule approved by the Engineer - in - Charge. The contractor should furnish progress report indicating the programme and progress once in a month. The Engineer - in - Charge may at any time in writing direct the contractor to slow down any part or whole of the work for any reason (which shall not be questioned) whatsoever, and the contractor shall comply with such orders of the Engineer - in - Charge. The compliance of such orders shall not entitle the contractor to any claim of compensation. Such orders of the Engineer - in - Charge for slowing down the work will however be duly taken into account while granting extension of time if asked by the contractor for which no extra payment will be entertained.
- 26.2 Delays in Commencement or progress or neglect of work and forfeiture of earnest money, Security deposit and withheld amounts:

If, at any time, the Engineer - in - Charge shall be of the opinion that the contractor is delaying commencement of the work or violating any of the provisions of the contractor is neglecting or delaying the progress of the work as defined by the tabular statement. "Rate of progress" in the "Articles of Agreement", he shall so advise the contractor in writing and at the same time demand compliance in accordance with conditions of Tender Notice. If the contractor neglects to comply with such demand within seven days after receipt of notice, it shall then or at any time there after, be lawful for the Engineer-in-Charge to take suitable action in accordance with Clause.60 of APSS.

27. Suspension of works by the Contractor.

- 27.1 If the Contractor shall suspend the works, or sublet the work without sanction of the Engineer-in-Charge, or in the opinion of the Engineer - in - Charge shall neglect or fail to proceed with due diligence in the performance of his part of the Contract as laid down in the Schedule rate of progress, or if he shall continue to default or repeat such default in the respects mentioned in clause.27 of the APSS, Engineer - in - Charge shall take action in accordance with Clause 61 of APSS.
- 27.2 If the Contractor stops work for 28 days and the Stoppage has not been authorised by the Engineer - in - Charge the Contract will be terminated under Clause 61 of APSS.
- 27.3 If the Contractor has delayed the completion of works the Contract will be terminated under Clause.61 of APSS.

28. Extension of the Intended Completion Date:

- 28.1 The Engineer - in - Charge shall extend or recommend for extension, in accordance with the Department / Government orders in force, the Intended Completion Date if a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.
- 28.2 The Engineer - in - Charge shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the

delay by this failure shall not be considered in assessing the new Intended Completion Date.

29. Delays Ordered by the Engineer-in-Charge:

29.1 The Engineer - in - Charge may instruct the Contractor to delay the start or progress of any activity within the Work.

30. Early Warning:

30.1 The contractor is to warn the Engineer - in - Charge at the earliest opportunity of specific likely future events or circumstances that may adversely affect the execution of works.

30.2 The Contractor shall cooperate with the Engineer - in - Charge in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer - in - Charge.

31. Management Meetings:

31.1 The Engineer - in - Charge may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the programme for remaining work and to deal with matters raised in accordance with the early warning procedure.

C. QUALITY CONTROL

32. Identifying Defects:

32.1 The Engineer - in - Charge shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer - in - Charge may instruct the Contractor to verify the Defect and to uncover and test any work that the Engineer considers may be a Defect.

33. Tests:

33.1 If the Engineer - in - Charge instructs the contractor to carry out a test not specified in the specification to check whether any work has a defect and the contractor shall pay for the test and any samples.

34. Correction of Defects:

34.1 The Engineer - in - Charge shall give notice to the contractor of any defects before the end of the defects liability period, which begins on completion. The defects liability period shall be extended for as long as defects remain to be corrected by the contractor.

34.2 Every time notice of a defect is given, the contractor shall correct the notified defect within the length of time specified by the Engineer - in - Charge's notice.

35. Uncorrected defects

35.1 If the contractor has not corrected the defect within the time specified in the Engineer-in-Charge's notice, the Engineer-in-Charge will assess the cost of having the defect corrected and the contractor will pay this amount.

- 35.2 The Engineer - in - Charge shall introduce O.K cards and prescribed the formats there of. O.K cards shall relate to all major components of the work. The contractor/his authorised representative shall be required to initiate and fill in and present the O.K card to the construction staff who would check the respective items and send to the quality control staff for final check and clearance/O.K. Any defects pointed out by the construction supervision staff or by the Quality Control staff shall promptly be attended to by the contractors and the fact of doing so be duly recorded on the back of O.K card.
- 35.3 The Engineer - in - Charge may also introduce check lists which shall be kept in Bound registers by the construction supervision staff. The contractor may be required to fill up these lists in the first instance and shall be subsequently checked by the Construction / Quality Control engineers.

36. Quality Control

37. Quality policy:

- 37.1 The quality of construction shall be of highest standards.

The materials, equipment, tools and plants and workmanship should be of high standards and acceptable quality conforming to the specifications.

The contractor attention is directed to the requirements of materials under the clause “Materials and Workmanship” in the preliminary specifications of APSS. Materials conforming to the latest relevant I.S. Specifications and other approved Codes and Specifications shall be used on the work

38 Quality plan:

The contractor shall draw quality plan based on the Quality Management System of ISO 9001-2000 and submit the same to the Superintending Engineer(R&B), Head Quarters circle, Hyd. at the time of concluding agreement for his approval.

Quality plan for raw materials/ construction materials/ finished products/works:

It shall be responsibility of the contractor to arrange for testing of all materials procured for the works under such consignment or at regular intervals as may be specified in APSS at his cost and only after the engineer is satisfied fully with the test results the materials of those consignments will be allowed to be utilized on the work. The contractor shall maintain a record of test results which shall be made available to the engineers for the inspection.

The contractor shall collect various raw materials, construction materials well in advance before its use and shall get them tested as per the approved quality plan. No material shall be used unless it passes all the check/tests as per the acceptance criteria given and a record of all checks/tests/ verifications shall be maintained at site.

All the materials used in the works including electrical, Sanitary and water supply works should be as per the list of approved materials, makes and suppliers enclosed. The department reserves the right to insist upon using any of the materials from these lists of approved materials.

For all fittings of electrical, sanitary and water supply items, fixtures to doors and windows, supply of steel windows and flush wood doors, paints etc., the product marked ISI should be used and shall be of reputed and approved brand/make.

Tests required to be conducted at outside laboratories shall be done at those labs which have availability of required instruments traceable to national standards and which are approved by the Department. Reports obtained from such labs should indicate the calibration status and traceability to national standards of their equipments for accepting the results.

39 Quality control Lab:

Establishment of Quality Control Laboratory: The contractor shall establish a quality control laboratory, at the site of work, equipped with calibrated equipment (as per list given below) to perform field tests, batch wise, for various materials, then and there itself, as per quality plan and standards.

Calibration of Equipment: All the equipment maintained by the contractor at site shall be calibrated from time to time according to the calibration frequency mentioned, with calibrations traceable to National Standards. Records for proof of such calibrations done for each instrument, with instrument number shall be maintained by the contractor and shall be made available for verification / counter signature by the Engineer-in-charge. Proper storage, handling and use of these instruments shall be ensured so that their calibration does not get disturbed due to weather factors etc., Frequency of the calibration shall be as decided by the Engineer-in-charge.

40 Quality Registers

The contractor shall maintain the Quality Test Registers at site in the format specified and record therein the results of all the tests conducted. The relevant reports of the tests conducted shall be maintained in a separate file.

Return of Site documents:

All the site records/ documents mentioned therein shall be returned to the Engineer-in-charge in full shape after the satisfactory completion of the work.

41 Quality Control Inspections:

In addition to the normal inspections by the regular staff in charge of the construction of work, periodical inspection by Chief General Manager(T) or his nominees, the work will also be inspected the Architects and Project Management consultants for this project and any other authorized external quality control agencies. If any sub-standard materials, work or workmanship is noticed, action will be taken based on their observations and these will be affected by the Engineer-in-charge of the execution of the work.

42 Quality Audit:

The Department may engage external agencies for conducting quality audit in which case the following methodology would be adopted:

i) The external agencies shall conduct quality control tests as per the standard procedures in the presence of Construction and Quality Control Engineers and the Contractor.

ii) The observations of the external agencies on the quality of work should be recorded then and there and signatures of all the concerned obtained as a token of acceptance of the observations.

iii) If any sub-standard materials, work or workmanship is noticed, action will be taken based on their observations and these will be affected by the Engineer-in-charge of the execution of the work.

For all works costing more than Rs.2.00 Crores the Contractor shall submit quality plan and also show proof of owning quality lab.

Note: In addition to the normal inspection by the regular staff in-charge of the construction of work, the work will also be inspected by the Deputy General Manager(T) /General Manger(T) Quality control Circle or by the State or District level Vigilance Cell Unit and any other authorised external Agency if any sub-standard work or excess payments are noticed with reference to measurement books etc., during inspection, action will be taken based on their observations and these will be effected by the Engineer-in-Charge of the execution of the work.

Maintenance of Quality, Quantity and Penalties to be imposed for deficient execution of work on the contractors are as follows:

I. FORMATION:

a) Density:

The density of the materials shall conform to MORTH table 300-1. The earthwork shall be compacted to the required density i.e., 95% for OMC. The determination of density shall be as per IS 2720 (part 28)

Acceptance criteria:

The density test location shall be chosen only through random techniques as closer as required to yield the minimum number of test results for evaluating a day's work. At least one measurement of density for every 1000 square meters of compacted area shall be taken. The number of tests in onset of measurements shall be 6 (if ND tests are conducted it shall be double). If considerable variations are observed between individual density results minimum number of tests in one set shall be increased to 10. Control shall not be based on any one test but on the mean value of a set 5-10 density determination. The mean density shall not be less than the specified density plus $(1.65 - (1.65 / (\text{No. of samples} - 0.5)))$ times the standard deviation.

b) RECOVERY FROM CONTRACTOR:

If any deviation is beyond the above limit, the work shall be rejected.

II. GSB/WMM/WBM:

a. Thickness:

The average thickness shall be based on 5 points in a cross section for two lane and 3 points for single lane and proportionately increased for additional lanes. (At least two cross sections in 1 Km length or less). The average thickness shall not be less than specified thickness.

b. Over size of metal:

Whenever graded metal is used:

- i. No over size will be allowed over and above the range specified as per in the first sieve (top sieve)
- ii. Over size in sieves other than top sieve – the difference in the rates of the metal of the specified size and next higher size in the specified grade should be recovered for that quantity of over size metal.
- iii. However if the over size in any sieve other than top sieve is found to be above 30%, Metal collected should be rejected.

c. Weight:

The physical requirements shall conform to MORTH table 400-6 / 400-10. The density of the compacted layer shall be at least 98% of the maximum dry density as determined for the materials as per IS 2720 (Part8). The weight of material (for WBM) shall not be less than the quantity specified in the data as per density of metal to be recorded prior to usage. However 10% tolerance may be permitted due to crushing of edges and corners, deviations in the measurement pit (0.5 x 0.50m)

d. RECOVERIES:

Shortfall in thickness / quantity / weight

- i) If shortfall is **up to 10%** in any one of the above parameter i.e., a+b+c = 10% specified oversize, **thickness / weight** – in a Km recovery @ **twice** the agreement rates to be effected for the deficiency.
- ii) If shortfall is between **10% and 20%** in any one of the above parameter i.e., a+b+c = 10% to 20% specified oversize, **thickness / weight** – in a Km recovery to be effected @ **thrice** the agreement rates for the deficiency.
- iii) If shortfall is **more than 20% of specified thickness / quantity / weight** – the work is to be rejected and redone.
- iv) In case both deficiency i.e., thickness & weight of metal is noticed, the recovery shall be for the maximum of the two deficiencies.

II. SDBC/BM/DBM Bituminous items:

a) Thickness:

The average thickness shall be the arithmetic mean of the difference of levels before and after construction at all grid points in that area i.e., at every 10m centre to centre longitudinally and 0.75m and 2.75m on two lanes, 1.25m on single lane transversely. The recovery for less thickness shall be as under.

b) Binder quantity:

The Binder content shall have to be tested at the plant or mix at the time of laying. Research carried out in the country revealed that with manage of time there would be loss of bitumen in layer which may occur from day one. Further the testing procedure / sampling itself varies from laboratory to laboratory, person to person and the results are subject to efficiency of the personnel as well as equipment.

The MORTH specification gives a tolerance of $\pm 0.30\%$ which in fact is for the plant mix and cannot be straight away applied for tests conducted on the surface after lapse of time. The bitumen extraction tests shall have to be conducted as early as possible and in no case beyond the 6 months.

Considering all these aspects the variations in Binder content and recoveries to be effected are:

- 1) 0-10% recovery to be effected @ twice the agreement.
- 2) 10-15% recovery to be effected @ thrice the agreement.
- 3) More than 15% the layer shall be rejected and re-laid.

c) RECOVERIES:

Shortfall in thickness/quantity/weight

- i) If shortfall is **up to 10%** in the specified **thickness/quantity/weight** – Recovery @ **twice** the agreement rates to be effected for the deficiency in quantity.
- ii) If shortfall is between **10% and 20%** in the specified **thickness/quantity/weight** – Recovery to be effected @ **thrice** the agreement rates for the deficiency in quantity.
- iii) If shortfall is **more than 20% of specified thickness / quantity / weight** – the work is to be rejected and redone.

V. CONCRETE ITEMS:

The testing and tolerance shall be as per MORTH section 903.5. No deviations are acceptable in thickness of PCC / all members except concrete pavements. In case of strength requirement in which established based on concrete cores / cubes no deviation is remitted from specified strength. However if the lesser strength concrete is allowed duly satisfying design criteria the rate of lower grade concrete or equivalent to the actual strength only shall be paid.

PAYMENT ADJUSTMENT FOR DEFICIENCY IN THICKNESS

Deficiency in the average thickness of day's work	Percent contract unit price payable
Up to 5 mm	100
6-10 mm	87
11-15 mm	81
16-20 mm	75
21-25 mm	70

GENERAL:

1. **The edges of the carriageway shall be correct within a tolerance of +/- 10mm.**
2. **The negative tolerance of top layer shall not be permitted in conjunction with positive tolerance of bottom layer.**
3. **The QC shall inspect the work at every stage of execution particularly before laying bituminous layers & during execution of BT layer on their own. QC is meant for quality assurance. Any check after completion does not serve the quality assurance.**

- 4. The contractor shall test all the materials as per agreement specifications and results shall be recorded duly signed by the Contractor or his representative and the section officer. The name of work and quarry location shall be clearly noted in the test reports.**

For all works costing more than Rs.2.00 Crores the Contractor shall submit quality plan and also show proof of owning quality lab or tie-up with an established quality lab.

Inspections and Quality Control. For pipeline works

- i) In addition to the quality assurance inspections of the concerned Engineer-In-Charge and his subordinate Engineers of HGCL at site for all the civil works, the contractor is required to cooperate and extend all facilities for the routine / regular / surprise, quality control inspections of the Engineer-In-charge and his subordinate Engineers, HGCL and or for the quality check inspections of third party personnel if any engaged by HGCL including collection and testing of samples.
- ii) In the case of various pipes and manholes, in addition to the required quality assurance inspections and tests by the concerned Engineer-In-Charge and his subordinate Engineers of HMWSSB at factory and at site as the case may be, the contractor is required to cooperate and extend all facilities for the routine / regular / surprise, quality control inspections and tests for the various pipes and manholes, by the Engineer-In-Charge , HGCL and his subordinate Engineers and or for the quality check inspections and tests by third party personnel if any engaged by HMWSSB including collection and testing of samples etc.
- iii) In the case of various appurtances in addition to the required quality assurance inspections and tests by the concerned Engineer-In-Charge and his subordinate Engineers of HGCL at factory and at site as the case may be, the contractor is required to cooperate and extend all facilities for the routine / regular / surprise, quality control inspections and tests for the various valves as above, by the Engineer-In-Charge , HGCL and his subordinate Engineers and or for the quality check inspections and tests by third party personnel if any engaged by HGCL. Since such inspections usually involve the inspecting personnels visits to the various manufacturing units at different stages, the cost of said inspections would be borne by HGCL, in case of successful visits. In case of failure of the relevant tests for the valves at the manufacturing units the cost of such inspection would be recovered from the contractor.

D. Cost Control

38. Bill of Quantities:

- 38.1 The Bill Quantities shall contain items for the construction work to be done by the Contractor.
- 38.2 The Contractor is paid for the quantity of the work done at the estimate rate in the Bill of Quantities for each item plus or minus Tender percentage.

39. Changes in the Quantities:

Contractor

Chief General Manager(T), HGCL

- 39.1 The contractor is bound to execute all supplemental works that are found essential, incidental and inevitable during execution of main work.
- 39.2 The payment of rates for such supplemental items of work will be regulated as under;
- Supplemental items directly deducible from similar items in the original agreement.
- 39.2.1 The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials labour between the new items and similar items in the agreement worked out with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which the tenders are accepted plus or minus over all tender percentage.
- 39.2.2 (a) Similar items but the rates of which cannot be directly deduced from the original agreement.
(b) Purely new items which do not correspond to any item in the agreement.
- 39.2.3 The rates of all such items shall be Estimated Rates plus or minus overall Tender premium.

40. Extra Items:

- 40.1 Extra items of work shall not vitiate the contract. The contractor shall be bound to execute extra items of work as directed by the Engineer - in – Charge. The rates for extra items shall be worked out by the Deputy General Manager(T) as per the conditions of the Contract and the same are binding on the Contractor.
- 40.2 The contractor shall before the 15th day of each month, submit in writing to the Deputy General Manager(T) a statement of extra items if any that they have executed during the preceding month failing which the contractor shall not be entitled to claim any.
- 40.3 Entrustment of additional items:
- 40.3.1 Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with bids and if the value of such items exceeds the limits up to which the officer is empowered to entrust works initially to contractor without calling for tenders, approval of **next higher authority** shall be obtained. Entrustment of such items on nomination shall be at rates not exceeding the estimated rates.
- 40.3.2 Entrustment of the additional items contingent on the main work will be authorised by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original agreement rates for such items shall be worked out in accordance with the procedure (I) For all items of work in excess of the quantities shown in the Bill of Quantities of the Tenders, the rate payable for such items shall be estimate rates for the items (+) or (-) over all tender percentage accepted by the competent authority.
- 40.3.3 Entrustment of either the additional or supplemental items shall be subject to the provisions of the agreement entered into by a Competent Authority after the tender is accepted. The Chief General Manager(T) being the authority next higher to the Chief General

Manager(T), who entered into the agreement approves the rate for the items / variation in quantity in the current agreement. The items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

Note: It may be noted that the term Estimate Rate used above means the rate in the sanctioned estimate with which the tenders are accepted, or if no such rates is available in the estimate, the rate derived will be with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which tenders are accepted.

41. Cash flow forecasts:

41.1 When the program is updated, the contractor is to provide the Engineer-in-charge with an updated cash flow forecast.

42. Payment Certificates:

42.1 The Contractor shall submit to the Engineer - in - Charge monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

42.2 The Engineer - in - Charge shall check the Contractor's monthly statement within 14 days.

42.3 The value of work executed shall be determined by the Engineer - in - Charge.

42.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

42.5 The Engineer - in - Charge may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

43. Note: For supply and release of payments contractor shall approach the concerned HGCL Officials

44. Payments:

44.1 Payment for the work done by the contractor will be made for the finished work based on the measurements recorded in measurement books by any officer of the department not lower in rank than a Assistant Engineer and check measured by any officer not lower in rank than a Deputy Executive Engineer/ Assistant General Manger. The measurement shall be recorded at various stages of the work done and also after work is completed. The contractor shall be present at the time of recording of each set of measurement and their check measurement and accept them then and there so as to avoid disputes at a later stage. If the contractor is not available at the work spot at the time of recording measurements or check measurements the particulars of measurements shall be signed by the authorized agent of contractor based on which the contractor shall accept the set of measurements without any further dispute. If for any reason the contractor's authorized agent is also not available at site when the department decides to suspend the work recording of measurements in the absence of the contractor or his authorized representative the department shall not entertain any claim from the contractor for any loss incurred by him on this account. The Contractor shall however note that the Department cannot indefinitely wait for recording the measurement due to the absence of the Contractor and his authorized agent and check measure them even in the absence of the contractor.

Note: For supply and release of payments contractor shall approach the concerned HGCL Officials

44.2 In the case of DI pipes:

- i) 65% of the agreement rate will be paid for pipes after testing at factory and conveyance to site as per specifications and on production of M/s DGS&D Test Certificate for the DI pipes.
- ii) 30% of the agreement rate after laying, jointing, and the payment shall be restricted to the length of pipeline tested plus 1000 M.
- iii) Balance 5% of the agreement rate after hydraulic field testing and refilling the line.

44.3 **Payment for Valves** shall be made as follows:

- (i) 80% of the rate of the sluice valves, scour valves and air valves will be paid after testing at the factory but after supply of the materials and stacking at the work site or at an identified location agreed by the Deputy General Manager(T) to avoid inconvenience to the public and traffic. The watch and ward for the safety of the valves has to be arranged by the contractor only at his cost. No extra payment will be made for the contractor for re-conveyance and transport of the valves from such location back to the work site.
- (ii) 10% of the rate after laying, jointing.
- (iii) Balance 10% of the rate of the sluice valves, scour valves, air valves will be paid after successful hydraulic field testing and refilling of pipe line.

44.4 The contractor should ensure the safety of the DI pipes and CI valves received at site and arrange for the watch and ward for the safety of the pipe at his cost only. No extra payment will be made to the contractor for re-conveyance and transport of the DI pipes and valves from such location back to the work site.

44.5 The watch and ward for the safe storage of the pipes, specials and valves shall be arranged exclusively by the Contractor, at his own cost. No extra payment will be made to the Contractor for conveyance of the same to the work site from any temporary storage location selected/provided.

44.6 The contractor shall arrange the third party inspection by the Directorate General of Supplies & Disposals, Government of India, Jeevan Tara Building, 5-Parliament Street, New Delhi – 110001

44.7 Payment for the under ground SEW & RCC pipe line for sewerage will be paid for 90% on supply, laying and jointing and 10% shall be paid after the testing of pipe line and refilling

44.8 Payments and Certificates:

44.8.1 Payments shall be adjusted for recovery of advance payments, liquidated damages in terms of tender conditions and security deposit for the due fulfillment of the contract. Payment will be made to the Contractor under the certificate duly recording the measurements in the Measurement Books, issued at reasonably frequent intervals by the Engineer - in - Charge, and intermediate payment will be the sum equal to 92½% of the value of work done as so certified and balance of 7½% will be withheld and retained as security for the due fulfillment of the contractor under the certificate to be issued by the Engineer-in-Charge.

Contractor

Chief General Manager(T), HGCL

On completion of the entire works the contractor will receive the final payment of all the moneys due or payable to him under or by virtue of the contract except earnest money deposit retained as security and a sum equal to 2½ percent of the total value of the work done. The amount withheld from the final bill will be retained under deposits and paid to the contractor together with the earnest money deposit retained as security after a period of 24 months as all defects shall have been made good according to the true intent and meaning thereof.

- 44.8.2 In case of over payments or wrong payment if any made to the contractor due to wrong interpretation of the provisions of the contract, APSS or Contract conditions etc., such unauthorized payment will be deducted in the subsequent bills or final bill for the work or from the bills under any other contracts with the HGCL or at any time there after from the deposits available with the HGCL.
- 44.8.3 Any recovery or recoveries advised by the Government Department either state or central, due to non-fulfillment of any contract entered into with them by the contractor shall be recovered from any bill or deposits of the contractor.
- 44.8.4 No claim shall be entertained, if the same is not represented in writing to the Engineer-in-Charge within 15 days of its occurrence.
- 44.8.5 The contractor is not eligible for any compensation for inevitable delay in handing over the site or for any other reason. In such case, suitable extensions of time will be granted after considering the merits of the case.
- 44.8.6 Wherever the audit parties of A.G point out that the contractor is unintendly Benefited, then the employer is empowered to recover the same amount from the Contractor and it is binding on the contractor
- 44.9 Intermediate Payments:
- 44.9.1 For intermediate Stage of work, only part rates as fixed by the Engineer - in - Charge will be paid.
- 44.9.2 Part rates shall be worked out for the work done portion based on the actual operations involved keeping in view the value of the balance work to be done, to avoid unintended benefit to the Contractor in initial Stage.
- 44.9.3 Full rate shall be paid when the work is completed to the full profile as noted in the drawings.
- 44.9.4 For earthwork in cutting, 10% of the quantity will be with held for intermediate payments and the same will be released after completing the work to the profiles as per drawings and disposal of the spoil material at the specified places and handing over the balance useful stone. For this purpose a length of 25 mts. will be taken as a Unit.
- 44.9.5 For earth work, embankment formation work, 10% of the quantity will be withheld for intermediate payments and the same will be released after completing the bund to the profiles as per drawings including trimming of side slopes and all other works contingent to the bund profile. For this purpose, 25 mts of length will be taken as a Unit.

- 44.9.6 For the structure works either with masonry or concrete where the height of structure is more than three meters, the quantities executed in the lower level will be withheld at the rate of one percent for every three meters height, if the balance height of the structure work is more than three meters in being over the executed level and the same will be released only after the entire work is completed as certified by the Engineer-in-Charge.
- 44.9.7 For C.M. & C.D. works and for lining works, spread over more than 2 Km. In length 5 percent of the concrete and Masonry quantities will be withheld and the same will be released after completion of all C.M. & C.D. works and lining for the entire length certified by the Engineer-in-Charge.
- 44.9.8 Where payment is intended for aggregates by Bill of Quantities item based on stack measurements, 10% of the quantity measured will be withheld. No payment or advance will be made for unfixed materials when the rates are for finished work in site.

45. Interest on Money due to the Contractor:

- 45.1 No omission by the Deputy General Manager(T) or the sub-divisional officer to pay the amount due upon certificates shall vitiate or make void the contract, nor shall the contractor be entitled to interest upon any guarantee fund or payments in arrear, nor upon any balance which may, on the final settlement of his accounts, found to be due to him.

46. Certificate of Completion of works:

46.1 Certificate of Completion of works:

- 46.1.1 When the whole of the work has been completed and has satisfactorily passed any final test that may be prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer-in-Charge accompanied by an undertaking to carry out any rectification work during the period of maintenance, such notice and undertaking shall be in writing and shall be deemed to be a request by the Contractor for the Engineer-in-Charge to issue a Certificate of completion in respect of the Works. The Engineer-in-Charge shall, within twenty one days of the date of delivery of such notice either issue to the Contractor, a certificate of completion stating the date on which, in his opinion, the works were completed in accordance with the Contract or give instructions in writing to the Contractor specifying all the Works which, in the Engineer-in-Charge's opinion, required to be done by the Contractor before the issue of such Certificate. The Engineer-in-Charge shall also notify the Contractor of any defects in the Works affecting completion that may appear after such instructions and before completion of the Works specified there in. The Contractor shall be entitled to receive such Certificate of the Completion within twenty one days of completion to the satisfaction of the Engineer-in-Charge of the Works so specified and making good of any defects so notified.

- 46.1.2 Similarly, the Contractor may request and the Engineer-in-Charge shall issue a Certificate of Completion in respect of:

- a) Any section of the permanent works in respect of which a separate time for completion is provided in the Contract, and
- b) Any substantial part of the permanent works which has been both completed to the satisfaction of the Engineer-in-Charge and occupied or used by the department.

46.1.3 If any part of the Permanent Works shall have been completed and shall have satisfactorily passed any final test that may be prescribed by the Contract, the Engineer-in-Charge may issue such certificate, and the Contractor shall be deemed to have undertaken to complete any outstanding work in that part of the Works during the period of Maintenance.

47. Taxes included in the bid:

a) GST will be applicable as per the rules applicable as per G.O MS No.67, I&CAD (Reforms) Dept, Dt : 04.07.2018.

48. Price Adjustment:

48.1 **Price Adjustment** : Price adjustment is applicable for Steel, Cement, POL and All other materials on the works in accordance with Government Orders As per G.O.Ms No.233 dated 20.11.2006 of T, R&B (R-I) Department and GO Rt No.175 dated 19.02.2007 T, R&B (R-I) Department.

48.2 The Price Adjustment shall be both for increase and decrease in the prices for the works completed within the original agreement period.

48.3 The price adjustment shall apply only for the work carried out within the agreement period and shall not apply to work carried out beyond the agreed period of completion.

In addition, the Price adjustment shall be for valid extension given for natural calamities duly limiting to the actual period/ days lost and for portion of work where work is delayed due to land acquisition/ shifting of utilities (this shall also be limited to actual length affected).

Price adjustment is applicable for Steel, Cement on the works in accordance with Government Orders As per G.O.Ms No.94 dated 16-04-2008 of T, R&B (R-I) Department and for POL and All other materials on the works in accordance with Government Orders as per G.O.Ms No.233 dated 20.11.2006 of T, R&B (R-I) Department and GO Rt No.175 dated 19.02.2007 T, R&B (R-I) Department and Go Ms. No. 35 TR&B (R-I) Dept. dated 30.1.2009.

48.4 The variation clause will be when the variation in rates is more or less than 5% of the rate provided in the technical sanctioned estimate based on which bids are invited or All India wholesale price index as stipulated in the G.O.Ms no 35, T(R&B) (R.I) Dept., dated 28/2/2006 on the date twenty eight days prior to closing date of submission of bids whichever is advantageous to the department.

48.5. To the extent that full compensation for any rise or fall costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rate and prices included in the contract shall be deemed to include amounts to cover the contingency of such rise or fall in costs.

49. Retention

- 49.1 The department shall retain from each payment due to the contractor @ the rate of 7.5% of bill amount until completion of the whole of the Works.
- 49.2 On completion of the whole of the works 5% of the total amount retained is re-paid to the Contractor and 2.5% will be paid when the Defects Liability Period has passed and the Engineer-in-Charge has certified that all the Defects notified by the Engineer-in-Charge to the Contractor before the end of this period have been corrected.
- 49.3 On completion of the whole works, the Contractor may substitute retention money with an **“on demand”** Bank Guarantee.

50. Liquidated Damages

- 50.1 If for any reason, which does not entitle the contractor to an extension of item, the rate of progress of works, or any section is at any time, in the opinion of the Chief General Manager(T) too slow to ensure completion by the prescribed time or extended time for completion Chief General Manager(T) shall so notify the contractor in writing and the contractor shall there upon take such steps as are necessary and the Chief General Manager(T) may approve to expedite progress so as to complete the works or such section by the prescribed time or extended time. The contractor shall not be entitled to any additional payment for taking such steps. If as a result of any notice given by the Chief General Manager(T) under this clause the contractor shall seek the Chief General Manager(T)s permission to do any work at night or on Sundays, if locally recognised as days or rest, or their locally recognised equivalent, such permission shall not be unreasonably refused.
- 50.2 If the contractor fails to complete whole of the works or any part thereof or section of the works within the stipulated periods of individual mile stones (including any bonafide extensions allowed by the competent authority without levying liquidated damages), the Chief General Manager(T) may without prejudice to any other method of recovery will deduct one tenth of one percent of contract value per calendar day or part of the day for the period of delays subject to a maximum of 10% of the contract value not as a penalty from any monies in his hands due or which may become due to the contractor. The payment or deductions of such damages shall not relieve the contractor from his obligation to complete the works, or from any other of his obligations and liabilities under the contract.
- 50.3 The liquidated damages for the whole of the work:

Mile stone No.	Period from the date of signing the agreement	Minimum percentage of work to be completed (Cumulative)	Liquidated damages amount in Rupees per day
For the Milestone-1	End of 2 months	40%	Rs. 50/day/Lakh balance work to be completed in terms of amount.
For the Milestone-2	End of 4 months	70%	
For the Milestone-3	End of 6 months	100%	

Contractor

Chief General Manager(T), HGCL

The maximum amount of liquidated damages for the whole of the works is ten percent of final contract price.

If the progress is made good such that the total work is completed within the final milestone, the intermediate liquidated damages levied for milestones 1 &2 shall be reviewed by the Chief General Manager(T), HGCL and waive off the same.

51. Payment of Mobilization Advance: Deleted

- 51.1 The contractors for works exceeding more than Rs.1.00 Crore of estimated contract value are permitted to avail the facility of mobilization advance in two installments equivalent to 10% of the contract amount (5% for labour mobilization and 5% for machinery and equipment) named in the letter of acceptance payable as per above. Payment of the loan will be done under separate certification by the Deputy General Manager(T) after (I) Execution of the form of agreement by the parties there to (ii) Provisions by the contractor of the further security in accordance with relevant condition and (iii) provision by the contractor of a Bank Guarantee from Nationalized Bank acceptable to the Deputy General Manager(T) for an amount equal to 12% (which includes 2% for the interest charges) of a contract amount as indicated in the letter of acceptance towards the first installment of the advance mobilization loan, such bank guarantee to remain effective until the said advance loan has been completely repaid by the contractor out of the current earnings under the contract and certified accordingly by the Deputy General Manager(T) The 'Advance mobilization loan' will be paid in 30 days after fulfilling the above – i, ii, and iii items. Advance mobilization loan will be paid only in case of contracts with estimated contract value exceeding Rs.100 lakhs.
- 51.2 A form of Bank Guarantee acceptable to Deputy General Manager(T) is indicated in the format of securities. The advance mobilization loan shall be used by the contractor exclusively for mobilization expenditures, including the acquisition of constructional plant, in connection with the works. Payment of the second installment of advance mobilization loan equivalent to 5 percent of the contract amount will be due within a period of 6 months for local purchase of machinery and equipment and within one year in case the machinery and equipment has to be imported under separate certification by the Engineer-in-Charge after (I) the value of the machinery and equipment procured, and brought to site and/or ordered (satisfactory evidence to be produced) by the contractor assessed at 100% for new machinery and 50% for old machinery brought to site and in working condition is equivalent to 5 percent of the contract amount already paid as first advance loan and (ii) furnishing by the contractor of a bank guarantee for an amount equal to 6 percent (one percent towards interest) of the contract value.
- 51.3 Should the contractor misappropriate any portion of the advance loan, it shall become due to the Deputy General Manager(T) and payable immediately in one lump by the contractor and no further loan will be considered thereafter.
- 51.4 **The above advance shall bear an interest of 2% extra over the prevailing SBI PLR at the time of concluding Agreement.** The interest on the amounts paid as advance is chargeable from the date the amount is paid. However if completion is delayed by circumstances beyond control of the contractor for which an extension has been granted by

the Chief General Manager(T), HGCL the interest charges on such advances shall be waived for the period of extension.

51.5 The value of Bank Guarantee for the advance payment given to the contractor can be progressively reduced by the amount repaid by the contractor as certified by the Deputy General Manager(T).

51.6 Recovery of advances :

51.6.1 The advance loan together with interest at the rate specified in the above para shall be repaid within percentages deductions from the intermediate payments under the contract. Deduction shall commence in the next interim payment following that in which the total of all such payments to the contractor have reached 10 percent of the contract amount and shall be made at the rate of 20 percent of amount of all interim payments in which the loan was made together with interest payable up to that date, until such time as the loan together with interest at the rate specified in para above shall be completely repaid prior to the expiry of the original time for completion.

52. Securities:

52.1 The Earnest Money Deposit and Additional Security (for discount tender percentage beyond 25%) shall be provided to the Department not later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank acceptable to the Department. The Earnest Money shall be valid until a date 28 days from the date of expiry of Defects Liability Period and the additional security shall be valid until a date 28 days from the date of issue of the certificate of completion.

53. Cost of Repairs:

53.1 Loss or damage to the works or materials to the works between the start date and the end of the defects correction periods shall be remedied by the contractor at the contractor's cost if the loss or damage arises from the contractor's acts or omissions.

E. FINISHING THE CONTRACT

54. Completion:

54.1 The Contractor shall request the Engineer-in-Charge to issue a Certificate of completion of the Works and the Engineer-in-Charge will do so upon deciding that the work is completed.

55. Taking Over:

55.1 The Department shall takes over the Site and the Works within seven days of the Engineer-in-Charge issuing a certificate of Completion.

56. Final Account:

56.1 The Contractor shall supply to the Engineer-in-Charge a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer-in-Charge shall issue a Defects Liability Certificate

and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer-in-Charge shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the final Account is still unsatisfactory after it has been resubmitted, the Engineer-in-Charge shall decide on the amount payable to the Contractor and issue a payment certificate within 90 days of receiving the Contractor's revised account.

57. Termination:

- 57.1 The Department may terminate the Contract if the contractor causes a fundamental breach of the Contract.
- 57.2 Fundamental breaches of Contract include, but shall not be limited to the following.
- a) The Contractor stops work for 28 days when no stoppage of work is shown on the current program and the stoppage has not been authorized by the Engineer-in-Charge.
 - b) The Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.
 - c) The Engineer-in-Charge gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer-in-Charge and
 - d) The Contractor does not maintain a security which is required and
 - e) The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined.
 - f) If the contractor, in the judgment of the Department has engaged in corrupt or fraudulent practices in competing for or in the executing the contract.

For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Department / Government and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the HGCL of the benefits of free and open competition.

- 57.3 Notwithstanding the above the Department may terminate the contract for convenience.
- 57.4 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secured leave the Site as soon as reasonably possible.

58. Payment upon Termination:

- 58.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payments received upon the date of the issue of the certificate, less other recoveries due in terms of the Contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed. Additional

Liquidated Damages shall not apply. If the total amount due to the Department exceeds any payment due to the Contractor the difference shall be a debt payable to the Department.

59. Property:

59.1 All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Department if the Contract is terminated because of Contractor's default.

60. Release from Performance:

60.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Department or the Contractor the Engineer-in-Charge shall certify that the contract has been frustrated. The Contractor shall make the site safe and stop work as quickLy as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out after wards to which commitment was made.

F. SPECIAL CONDITIONS

61. Water Supply:

The Contractor has to make his own arrangements for water required for the work and to the colonies and work sites, which are to be established by the Contractor.

62. Electrical Power:

The Contractors will have to make their own arrangements for drawing electric power from the nearest power line after obtaining permission from the Andhra Pradesh State Electricity Board at his own cost. In case of failure of electricity, the Contractor has to make alternative arrangements for supply of electricity by Diesel Generator sets of suitable capacity at place of work. If the supply is arranged by the Department, necessary Tariff rates shall have to be paid based on the prevailing rates.

The contractor will pay the bills of Electricity Board for the cost of power consumed by him.

The contractor shall satisfy all the conditions and rules required as per Indian Electricity Act 1910 and under rule –45(I) of the Indian Electricity Rules, 1956 as amended from time to time and other pertinent rules.

The power shall be used for bonafide Departmental works only.

62.1 Electric Power for Domestic Supply:

- a) The contractor has to make his own arrangements for the supply of electric power for domestic purposes and the charges for this purpose have to be paid by him at the rates as fixed by the Andhra Pradesh State Electricity Board from time to time.
- b) The contractor will have to make his own arrangements to lay and maintain the necessary distribution lines and wiring for the camp at his own cost. The layout and the methods of laying the lines and wiring shall have the prior approval of the Engineer-in-Charge. All camp area shall be properly electrified. All lines, streets, approaches for the camp etc., shall be sufficiently lighted for the safety of staff and labour of the contractor, at the cost of the Contractor and it will be subject to the approval of the Engineer-in-Charge.

63. Land:

63.1 Land for Contractor's use:

The contractor will be permitted to use Department land for execution of work. The contractor shall have to make his own arrangements for acquiring and clearing the site, leveling, providing drainage and other facilities for labour staff colonies, site office, workshop or stores and for related activities. The Contractor shall apply to the Department within a reasonable time after the award of the contract and at least 30 days in advance of its use, the details of land required by him for the work at site and the land required for his camp and should any private land which has not been acquired, be required by the contractor for his use. The same may be acquired by the contractor at his own cost by private negotiations and no claim shall be admissible to him on this account.

The Engineer-in-Charge reserves the right to refuse permission for use of any department land for which no claim or compensation shall be admissible to the contractor. The contractor shall, however, not be required to pay cost or any rent for the Department land given to him.

63.2 Surrender of occupied land

a) The Government land as here in before mentioned shall be surrendered to the Engineer-in-Charge within seven days, after issue of completion certificate. Also no land shall be held by the contractor longer than the Engineer-in-Charge shall deem necessary and the contractor shall on the receipt of due notice from the Engineer-in-Charge, vacate and surrender the land which the Engineer-in-Charge may certify as no longer required by the Contractor for the purpose of the work.

b) The contractor shall make good to the satisfaction of the Engineer-in-Charge any damage to areas, which he has to return or to other property or land handed over to him for purpose of this work. Temporary structures may be erected by the contractor for storage sheds, offices, residences etc., for non-commercial use, with the permission of the Deputy General Manager(T) on the land handed over to him at his own cost. At the completion of the work these structures shall be dismantled site cleared and handed over to the Deputy General Manager(T). The land required for providing amenities will be given free of cost from Department lands if available otherwise the contractor shall have to make his own arrangements.

63.3 Contractor not to dispose off Spoil etc.,

The contractor shall not dispose off or remove except for the purpose of fulfillment of this contract, sand, stone, clay ballast, earth, trees and shrubs or other materials obtained in the excavation made or lying on the site of the work, and all such materials and produce shall remain property of the HGCL. The Department may upon request from the contractor, or if so stipulated in the conditions of the contract allow the contractor to use any of the above materials for the works either free of cost or after payment as may be specifically mentioned or considered necessary during the execution of the work.

64. Roads:

In addition to existing public roads and roads Constructed by Government, if any, in work area all additional approach roads inside work area and camp required by the Contractor shall be constructed and maintained by him at his own cost. The layout design, construction and maintenance etc. of the roads shall be subject to the approval of the Engineer-in-Charge. The contractor shall permit the use of these roads by the Department / Government free of charge.

It is possible that work at, or in the vicinity of the work site will be performed by the Department or by other contractors engaged in work for the Department during the contract period. The contractor shall without charge permit the Department and such other contractor and other workmen to use the access facilities including roads and other facilities, constructed and acquired by the contractor for use in the performance of the works.

The contractor's heavy construction traffic or tracked equipment shall not traverse any public roads or bridges unless the contractor has made arrangement with the authority concerned. In case contractor's heavy construction traffic or tracked equipment is not allowed to traverse any public roads or bridges and the contractor is required to make some alternative arrangements, no claim on this account shall be entertained.

The contractor is cautioned to take necessary precautions in transportation of construction materials to avoid accidents.

65. Payment for Camp Construction

No payment will be made to the contractor for construction, operation and maintenance of camp and other camp facilities and the entire cost of such work shall be deemed to have been included in the tendered rate for the various items of work in the schedule of quantities and bids.

66. Explosive And Fuel Storage Tanks

No explosive shall be stored within 1/2 (half) KM of the limit of the camp sites. The storage of gasoline and other fuel oils or of Butane, Propane and other liquefied petroleum gases, shall conform to the regulations of Andhra Pradesh State Government and Government of India. The tanks, above ground and having capacity in excess of 2000 liters, shall not be located within the camp area, nor within 200m, of any building.

67. Labour:

The contractor shall, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

Labour importation and amenities to labour and contractor's staff shall be to the contractor's account. His quoted percentage shall include the expenditure towards importation of labour amenities to labour and staff;

The contractor shall, if required by the Engineer-in-Charge, deliver to the Engineer-in-Charge a written in detail, in such form and at such intervals as the Engineer-in-Charge may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the contractor on the Site and such information respecting Contractor's Equipment as the Engineer-in-Charge may require.

68. Transportation of Labour:

The contractor shall make his own arrangement for the daily transportation of the labour and staff from labour camps colonies to the work spot and no labour or staff of the contractor shall stay at the work spot. No extra payment will be made to the contractor for the above transportation of the labour and his quoted percentage to the work shall include the transportation charges of labour from colonies to work spot and back.

The contractor will at all times duly observe the provisions of employment of children Act XXVI of 1938 and any enactment or modification of the same and will not employ or permit any person to do any work for the purpose under the provisions of this agreement in contravention of said Act. The contractor here by agrees to indemnify the department from and against all claims, penalties which may be suffered by the department or any person employed by the department by any default on the part of the contractor in the observance and performance of the provisions of the employment of children Act. XXVI of 1938 or any enactment or modification of the same.

As per Govt. memo No.721/Gr.(1)/81-35, dt:17.11.87. The contractor shall obtain the insurance at his own cost to cover the risk on the works to labour engaged by him during period of execution against fire and other usual risks and produce the same to the Deputy General Manager(T) concerned before commencement of work.

69. Safety Measures:

1. The contractor shall take necessary precautions for safety of the workers and preserving their health while working in such jobs, which require special protection and precautions. The following are some of the measures listed but they are not exhaustive and contractor shall add to and augment these precautions on his own initiative where necessary and shall comply with directions issued by the Deputy General Manager(T) or on his behalf from time to time and at all times.
2. Providing protective foot wear to workers situations like mixing and placing of mortar or concrete sand in quarries and places where the work is done under much wet conditions.
3. Providing protective head wear to workers at places like under ground excavations to protect them against rock falls.
4. Providing masks to workers at granulates or at other locations where too much fine dust is floating about and sprinKling water at frequent intervals by water hoses on all stone crushing area and storage bins abate to dust.
5. Getting the workers in such jobs periodically examined for chest trouble due to too much breathing in to fine dust.
6. Taking such normal precautions like fencing and lightening in excavation of trenches, not allowing rolls and metal parts of useless timber spread around, making danger areas for blasting providing whistles etc.
7. Supply work men with proper belts, ropes etc., when working in precarious slopes etc.
8. Avoiding named electrical wire etc., as they would electrocute the works.
9. Taking necessary steps towards training the workers concerned on the machinery before they are allowed to handle them independently and taking all necessary precautions in around the areas where machines hoists and similar units are working.

70. Fair Wage Clause:

The contractor shall pay not less than fair wages to labourers engaged by him on the work. "Fair" wages means wages whether for time of piecework notified by the Government from time in the area in which the work is situated.

The contractor shall not with-standing the revisions of any contract to the contrary cause to be paid to the labour, in directly engaged on the work including any labour engaged by the

sub-contractor in connection with the said work, as if the labourers had been directly employed by him.

In respect of labour directly or indirectly employed in the works for the purpose of the contractors part of the agreement the contractor shall comply with the rules and regulations on the maintenance of suitable records prescribed for this purpose from time to time by the Government. He shall maintain his accounts and vouchers on the payment of wages to the labourers to the satisfaction of the Deputy General Manager(T).

The Deputy General Manager(T) shall have the right to call for such record as required to satisfy himself on the payment of fair wages to the labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss suffered by the worker or workers by reason of the “fair wages” clause to the workers.

The contractor shall be primarily liable for all payments to be made and for the observance of the regulations framed by the Government from time to time without prejudice to his right to claim indemnity from his sub-contractors.

As per contract labour (Regulation and abolition) Act. 1970 the contractor has to produce the license obtained from the licensing officers of the labour department along with the tender or at the time of agreement.

Any violation of the conditions above shall be deemed to be a breach of his contract.

Equal wages are to be paid for both men and women if the nature of work is same and similar.

The contractor shall arrange for the recruitment of skilled and unskilled labour local and imported to the extent necessary to complete the work within the agreed period as directed by the Deputy General Manager(T) in writing.

71. Indemnity Bond:

NAME OF WORK: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

We _____, contractor Resident of _____do hereby bind our self to pay all the claims which may come (a) under Workmen’s Compensation Act. 1933 with any statutory modification there of and rules there under or otherwise for or in respect of any damage or compensation payable in connection with any accident or injury sustained (b) under Minimum wages Act 1948 (c) under payment of wages Act.1936 (d) under the Contractor labour (Regulation and Abolition) Act. 1970 by workmen engaged for the performance of the business relating to the above contract. Failing such payment of claims of workmen engaged in the above work, we abide in accepting for the recovery of such claims, affected from any of our assets with the departments.

Signature of the Contractor

Contractor

Chief General Manager(T), HGCL

72. Compliance With Labour Regulations:

During continuance of the contract, the contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority and also applicable labour regulations, health and sanitary arrangements for workmen, insurance and other benefits. Salient features of some of the major labour laws that are applicable to construction industry are given below. The contractor shall keep the Department indemnified in case any action is taken against Department by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Department is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provision stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the contractor, the Engineer-in-charge /Department shall have the right to deduct any money due to the contractor including his amount of performance security. The Department/Engineer-in-Charge shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the Department.

The employees of the Contractor and the Sub-contractor in no case shall be treated as the Department of the Department at any point of time.

73. Salient features of some major labour laws applicable to establishment engaged in buildings and other construction work:

- (a) Workmen compensation Act 1923: The Act provides for compensation in case if injury by accident arising out of and during the course of employment.
- (b) Payment of Gratuity Act 1972: Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if any employee has completed 5 years service or more, or on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments, employing 10 or more employees.
- (c) Employees P.F. and Miscellaneous provision Act 1952: The Act provides for monthly contributions by the Department plus workers @ 10% or 8.33%. The benefits payable under the Act are:
 - i. Pension or family pension on retirement or death, as the case may be.
 - ii. Deposit linked insurance on the death in harness of the worker.
 - iii. Payment of P.F. accumulation on retirement/death etc.,
- (d) Maternity Benefit Act 1951: The Act provides for leave and some other benefits to women employees in case of confinements or miscarriage etc.

- (e) Contract Labour (Regulation & Abolition) Act 1970: The Act provides for certain welfare measures to be provided by the contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided by the Principal Department by Law. The Principal Department is required to take certificate of Registration and the contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Department if they employ 20 or more contract labour.
- (f) Minimum wages Act 1948: The Department is supposed to pay not less than the Minimum wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment construction of Buildings, Roads, Runways are scheduled employments.
- (g) Payment of wages Act 1936: It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made form the wages of the workers.
- (h) Equal Remuneration Act 1979: The Act provides for payment of equal wages for work of equal nature to Male or Female workers and for not making discrimination against Female employee in the matters of transfers, training and promotions etc.
- (i) Payment of Bonus Act 1965: The Act Is applicable to all establishments employing 20 or more employees. The Act provides for payment of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs. 3500/- per month or less. The bonus to be paid to employees getting Rs.2500/- per months or above and up to Rs.3500/- per month shall be worked out by taking wages as Rs.2500/- per monthly only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.
- (j) Industrial Disputes Act 1947: The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock- out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- (k) Industrial Employment (Standing Orders) Act 1946: It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Department on matters provided in the Act and get the same certified by the designated Authority.
- (l) Trade Unions Act 1926: The Act lays down the procedure for registration of trade unions of workmen and Departments. The Trade Unions registered under the act have been given certain immunities from civil and criminal liabilities.
- (m) Child Labour (Prohibition & Regulation) Act 1986: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes, Employment Child Labour is prohibited in Building and Construction Industry.

- (n) Inter-State Migrant workmen's (Regulation of Employment & Conditions of service) Act 1979: The Act applicable to an establishment, which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another State). The inter State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, travelling expenses from home up to the establishment and back, etc.
- (o) The Building and Other Construction workers (regulation of Employment and conditions of service) Act 1996 and the Cess Act of 1996: All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 1% of the cost of construction as may be modified by the Government. The Department of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Department to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- (p) Factories Act 1948: The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 person or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.

74. Liabilities of the Contractor

74.1 Accident Relief and workmen compensation:

The contractor should make all necessary arrangements for the safety of workmen on the occurrence of the accident, which results in the injury or death of any of the workmen employed by the contractor, the contractor shall within 24 hours of the happenings of the accident and such accidents should intimate in writing to the concerned Asst. Engineer / Asst. Executive Engineer/Assistant Engineer/Manager of the Department the act of such accident. The contractor shall indemnify Department against all loss or damage sustained by the Department resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or fines if any payable by Govt. as a consequence of Govt. failure to give notice under workmen's compensation Act or otherwise conform to the provisions of the said Act. In regard to such accident.

74.2 In the event of an accident in respect of which compensation may become payable under the workmen's compensation Act VIII 23 whether by the contractor, by the Department it shall be lawful for the Deputy General Manager(T) to retain such sum of money which may in the opinion of the Deputy General Manager(T) be sufficient to meet such liability. The opinion of the Deputy General Manager(T) shall be final in regard to all matters arising under this clause.

74.3 The contractor shall at all times indemnify the Govt. of A.P. against all claims which may be made under the workmen's compensation act or any statutory modification thereafter or

rules there under or otherwise consequent of any damage or compensation payable in consequent of any accident or injuries sustained or death of any workmen engaged in the performance of the business relating to the contractor.

75. Contractor's Staff, Representatives and Labour:

- (a) The contractor shall, at all times, maintain on the works, staff of qualified Engineers, and Supervisors of sufficient experience of similar other jobs to assure that the quality of work turned out shall be as intended in the specifications. The contractor shall also maintain at the works, a Work Manager or sufficient status, experience and office and duly authorise him to deal with all aspects of the day-today work. All communications to any commitments by the Work Manager shall be considered as binding on the Contractor.
- (b) The Contractor shall at all times submit details of skilled and unskilled labour and equipment employed to the Engineer-in-Charge in prescribed proforma as he may require to assess and ensure the proper progress of work.
- (c) If the contractor does not employ the technical person agreed to on the work a fine of Rs.25,000/- will be imposed. If he does not employ for 30 days, thereafter it becomes a fundamental breach of contract.

76. Accommodation and food:

The contractor should arrange accommodation he needs, at his own cost. The contractor shall make his own arrangements for supply of food grains, fuel and other provision to his staff and labourers including controlled commodities.

77. Relationship:

Contractor shall have to furnish information along with tender, about the relationship he is having with any officer of the Department, Government of Andhra Pradesh of the rank Assistant Engineer and above engaged in the work and any officer of the rank of Assistant Secretary and above of the Department of Government of Andhra Pradesh.

78. Protection of adjoining premises:

The contractor shall protect adjoining sites against structural, decorative and other damages that could be caused by the execution of these works and make good at his cost any such damages.

79. Work during night or on Sundays and holidays:

The works can be allowed to be carried out during night, Sundays or authorised holidays in order to enable him to meet the schedule targets and the work shall require almost round the clock working keeping in view:

- (i) The provisions of relevant labour laws being adhered to:
- (ii) Adequate lighting, supervision and safety measures are established to the satisfaction of the Engineer-in-Charge and
- (iii) The construction programme given by the Contractor and agreed upon by the Engineer-in-Charge envisages such night working or working during Sundays or authorised holidays.

80. Layout of materials stacks:

The contractor shall deposit materials for the purpose of the work on such parts only of the ground as may be approved by the Engineer-in-Charge before starting work. A detailed survey, clearly indicating position and areas where materials shall be stacked and sheds built is to be conducted by the contractor at his own cost and only after obtaining necessary approval of the plan for use of sites by the Engineer-in-Charge, the Contractor can use the sites accordingly.

81. Use of blasting materials:

Procurement of blasting materials and its storage is the responsibility of the contractor. The contractor shall engage licensed blaster for blasting operation. The contractor is to act in accordance with Indian Explosive Act and other rules prevailing, during the execution of work. It is the responsibility of the contractor to see, that works by other agencies in the vicinity are not hampered, in such cases if any claim is made by other agencies that should be borne by the contractor. Carriage of blasting materials, from the magazine to the work site, is the responsibility of the contractor.

82. Equipment:

82.1 The contractor shall have sufficient equipment and labour and shall work such hours and shifts as may be necessary to maintain the progress on the work as per the approval progress schedule. The working and shifts hours shall comply with the Govt. Regulations in force.

82.2 It is to expressly and clearly understood that contractor shall make his own arrangements to equip himself with all machinery and special tools and plant for the speedy and proper execution of the work and the department does not undertake responsibility towards their supply.

82.3 The department shall supply such of the machinery that may be available on hire basis but their supply cannot be demanded as matter of right and no delay in progress can be attributed to such non-supply of the plant by the department and the department cannot be made liable for any damage to the contractor. The Contractor shall be responsible for safe custody of the departmental machinery supplied to him (which will be delivered to contractor at the machinery yard at site of work) and he has to make good all damages and losses if any other than fire, wear and tear to bring it to the conditions that existed at the time of issue to the contractor before handing over the same to the department. The hire charges for the machinery handed over to the contractor will be recovered at the rate prevalent at the time of supply. The contractor will have to execute supplemental agreement with Deputy General Manager(T) at the time of supply of the machinery.

82.4 The acceptance of departmental machinery on hire is optional to the contractor.

83. Steel forms:

Steel forms should be used for all items involving and use of centering and shuttering shall be single plane without any dents and undulations.

84. Inconvenience to public:

The contractor shall not deposit materials at any site, which will cause inconvenience to public. The Engineer-in-Charge may direct the contractor to remove such materials or may undertake the job at the cost of the contractor.

85. Conflict of interest:

Any bribe, commission, gift or advantage given, promised or offered by on behalf of contractor or his partner, agent or servant or any one on his behalf to any officer, servant, representatives, agents of Engineer-in-Charge, or any persons on their behalf, in relation to the obtaining or to execution of this, or any other contract with Engineer-in-Charge shall in addition to any criminal liability, which it may occur, subject to the cancellation of this or all other contracts and also to payment of any loss or damage resulting from any such cancellation. Engineer-in-Charge shall then be entitled to deduct the amount, so payable from any money, otherwise due to the contractor under this or any other contract.

86. Contract documents and materials to be treated as confidential:

All documents, correspondences, decisions and orders, concerning the contract shall be considered as confidential and/or restricted in nature by the contractor and he shall not divulge or allow access to them by any unauthorised person.

87. General obligations of Contractor:

- 87.1 The contractor shall, subject to the provision of the contract and with due care and diligence, execute and maintain the works in accordance with specifications and drawings.
- 87.2 The contractor shall promptly inform the Department and the Engineer-in-Charge of any error, omission, fault and such defect in the design of or specifications for the works which are discovered when reviewing the contract documents or in the process of execution of the works.
- 87.3 If Contractor believes that a decision taken by the Engineer-in-Charge was either outside the authority given to the Engineer-in-Charge by the Contract or that the decision was wrongly taken, the decision shall be referred to the technical expert within 14 days of the notification of the Engineer-in-Charge's decisions.
- 87.4 Pending finalisation of disputes, the contractor shall proceed with execution of work with all due diligence.

88. Security measures:

- a) Security requirements for the work shall be in accordance with the Departments general requirements including provisions of this clause and the Contractor shall conform to such requirements and shall be held responsible for the actions of all his staff, employees and the staff and employees of his sub-contractors.
- b) All contractors' employees, representatives and sub-contractor's employees shall wear identifications badges provided by the contractor. Badges shall identify the contractor, showing and employee's number and shall be worn at all times while at the site. Individual labour will not be required to wear identification badges.
- c) All vehicles used by the contractor shall be clearly marked with contractor's name.
- d) The contractor shall be responsible for the security of the works for the duration of the contract and shall provide and maintain continuously adequate security personnel to fulfill these obligations. The requirements of security measures shall include, but not

limited to maintenance of order on the site, provision of all lighting, fencing, guard flagmen and all other measures necessary for the protection of the works within the colonies, camps and elsewhere on the site, all materials delivered to the site, all persons employed in connection with the works continuously throughout working and non working period including nights, Sundays and holidays for duration of the contract.

- e) Other contractors working on the site concurrently with the contractor will provide security for their own plant and materials. However, their security provisions shall in no way relieve the contractor of his responsibilities in this respect
- f) Separate payment will not be made for provision of security services.

89. Fire fighting measures:

- a) The contractor shall provide and maintain adequate firefighting equipment and take adequate fire precaution measures for the safety of all personnel and temporary and permanent works and shall take action to prevent damage to destruction by fire of trees shrubs and grasses.
- b) Separate payment will not be made for the provision of fire prevention measures.

90. Provisions of Health and Sanitation:

90.1 The contractor shall implement the sanitary and watch and ward rules and regulations for all forces employed under this contract and if the Contractor fails to enforce these rules, the Engineer-in-Charge may enforce them at the expenses of the Contractor.

The contractor's special attention is invited to clause 37, 38, 39 and 51 of the preliminary specification to the A.P.S.S. and he is required to provide at his own expenses the following amenities to the satisfaction of Engineer-in-charge concerned.

90.2 First Aid: At the work site there shall be maintained in a readily accessible place, first aid appliances and medicine including adequate supply of sterilized dressing and sterilized cotton wool. The appliance shall be kept in good order. They shall be placed under the charge of a responsible person, who shall be readily available during working hours.

90.3 Drinking water:

Water of good quality for drinking purpose shall be provided for the worker on a scale of not less than 2 gallons per head per day.

- a) Where drinking water is obtained from an intermittent public water supply each work site shall be provided with a storage tank, where such drinking water shall be stored.
- b) Every water supply storage shall be at a distance of not less than 10 M. from any latrine drain or other source of pollution where water has to be drained. Any existing well, which is within such proximity of any latrine, drain or other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be dust and water proof.
- c) A reliable pump shall be fitted to each inner well. The trap door shall be keep locked and opened only for inspection or cleaning which shall be done at least once a month.

90.4 Washing and bathing place:

Adequate washing and bathing places shall be provided separately for men and women. Such place shall be keep clean and well drained, bathing or washing should not be allowed in or near any drinking water well.

90.5 Latrine and Urinals:

There shall be provided within the area of every work site latrines and urinals in an accessible place to men and women separately. For each of them shall be on the following scales or the scale as directed by Engineer-in-charge in any particular case.

- | | | |
|-------|---|---|
| (i). | Where the number of persons employed does not exceed 50 | 2 |
| (ii) | Where the number of persons employed exceeds 50 but does not exceed 100 | 3 |
| (iii) | For every additional 100 | 3 |

If women are employed, separate latrines and urinals separated from those for men shall be provided on the same scale.

Except in work site provided with water flushed latrines connected with a water borne sewage systems all latrine shall be cleaned at least four times daily and at least twice during working hours and kept in a strict sanitary condition. The receipt scales shall be tarred inside and outside at least once a year.

The excrete from the latrines shall be disposed off at the contractors expenses in a way approved by the local public health authority. The contractor shall also employ adequate number of scavengers and conservancy shall to keep the latrines and urinals in a clean condition.

90.6 Shelters during Rest:

At the work site there shall be provided free of cost two suitable sheds, one for meals and other for rest for the use of workers.

90.7 Creches:

At every work site at which 50 or more women workers are ordinarily employed there shall be provided two huts of suitable size for use of children under the age of 6 years. One hut shall be used for infants games and other as a bed room. The hut shall be constructed on a standard not lower than the following.

1. Thatched roots
2. Mud floors and wall
3. Planks spread over the mud floor and covered with matting. The use of huts shall be restricted to children their attendants and mothers of the children.

90.8 Land should be acquired temporarily for Storing Contractor's materials or for housing their staff.

The contractor should make his own arrangements for temporary acquisition of land required for storing his materials and for the housing of his staff at his own expenses

91. Training of personnel:

The contractor, shall, if and as directed by the Engineer-in-Charge provide free of any charge adequate facilities, for vocational training of Departmental Officers, students, Engineers, supervisors, foremen, skilled workmen etc. not exceeding six in number at any one time on the contractor's work. Their salaries, allowances etc. will be borne by the Department and the training schemes will be drawn up by the Engineer-in-Charge in consultation with the contractor.

92. Ecological balance:

- a) The contractor shall maintain ecological balance by preventing de-forestation, water pollution and defacing of natural landscape. The contractor shall so conduct his construction operation as to prevent any unnecessary destruction, scarring, or defacing of the natural surrounding in the vicinity of the work. In respect of the ecological balance, Contractor shall observe the following instructions.
- i) Where unnecessary destruction, scarring, damage or defacing may occur, as result of the operation, the same shall be repaired replanted or otherwise corrected at the contractor's expense. The contractor shall adopt precautions when using explosives, which will prevent scattering of rocks or other debris outside the work area. All work area including borrow areas shall be smoothed and graded in a manner to conform to the natural appearances of the landscape as directed by the Engineer-in-Charge.
 - ii) All trees and shrubbery which are not specifically required to be cleared or removed for construction purposes shall be preserved and shall be protected from any damage that may be caused by the contractor's construction operation and equipment. The removal of trees and shrubs will be permitted only after prior approval by the Engineer-in-Charge. Special care shall be exercised where trees or shrubs are exposed to injuries by construction equipment, blasting, excavating, dumping, chemical damage or other operation and the contractor shall adequately protect such trees by use of protective barriers or other methods approval by the Engineer-in-Charge. Trees shall not be used for anchorages. The contractor shall be responsible for injuries to trees and shrubs caused by his operations. The term "injury" shall include, without limitation bruising, scarring, tearing and breaking of roots, trunks or branches. All injured trees and shrubs be restored as nearly as practicable without delay to their original condition at the contractor's expense.
 - (iii) The contractor's construction activities shall be performed by methods that will present entrance or accidental spillage of solid matter contaminants, debris and other objectionable pollutants and wastage into river. Such pollutant and waste include earth and earth products, garbage, cement concrete, sewage effluent, industrial wastes, radio-active substances, mercury, oil and other petroleum products, aggregate processing, mineral salts and thermal pollution. Pollutants and wastes shall be disposed off in a manner and at sites approved by the Engineer-in-Charge.
 - (iv) In conduct of construction activities and operation of equipments the contractor shall utilise such practicable methods and devices as are reasonably available to control, prevent and otherwise minimise the air pollution. The excessive omission of dust in to the atmosphere will not be permitted during the manufacture, handling and storage of concrete aggregates and the contractor shall use such methods and equipment as a necessary for collection and disposal or prevention of dust during these operation. The contractor's methods of storing and handling cement shall also include means of eliminating atmospheric discharges of dust, equipment and vehicles that give objectionable omission of exhaust gases shall not be operated. Burning of materials resulting from clearing of trees, bushes, combustible construction materials and rubbish may be permitted only when atmospheric conditions for burning are considered favourable.

- b) Separate payment will not be made for complying with the provisions of this clause and all cost shall be deemed to have been included in the unit rates and prices included in the contract if any provision is not complied with within a reasonable time even after issue of a notice in this respect, the necessary operations would be carried out by the Engineer-in-Charge at the cost of the Contractor, Orders of the Engineer-in-Charge in this respect would be final and binding on the contractor.

93. Preservation of existing vegetation:

- a) The contractor will preserve and protect all existing vegetation such as trees, on or adjacent to the site which do not unreasonably interfere with the construction as may be determined by the Engineer-in-Charge. The contractor will be held responsible for all unauthorized cutting or damage of trees, including damage due to careless operation of equipment, stockpiling of materials or trekking of grass areas by equipment. Care shall be taken by the Contractor in felling trees authorized for removal to avoid any unnecessary damages to vegetation and trees that are to remain in place and to structures under construction or in existence and to workmen.
- b) All the produce from such cutting of trees by the contractor shall remain the property of Department and shall be properly stacked at site, approved by the Engineer-in-Charge. No payment whatsoever, shall be made for such cutting and its stacking by the Contractor. If any produce from such cutting is not handed over to the Department by the contractor, he shall be charged for the same at the rates to be decided by the Engineer-in-Charge. The recovery of this amount shall be made in full from the intermediate bill that follows.
- c) The contractor shall also make arrangements of fuel deposits for supply of required fuel for the labourer to be employed for cooking purpose at his own cost in order to prevent destruction of vegetation growth in the surrounding area of the work site.

94. Possession prior to completion:

The Engineer-in-charge shall have the right to take possession of or use any completed part of work or works or any part there of under construction either temporarily or permanently. Such possession or use shall not be deemed as an acceptance of any work either completed or not completed in accordance with the contract with in the interest of Clause 28 of APSS except where expressly otherwise specified by the Engineer-in-charge.

95. Payment upon termination:

If the contract is terminated because of a fundamental breach of contract by the contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payment received upon the date of the issue of the certificate and less the percentage to apply to the work not completed as indicated in the contract data. Additional liquidated damages shall not apply. If the total amount due to the Department exceeds any payment due to the contractor the difference shall be a debt payable to the Department. In case of default for payment within 28 days from the date of issue of notice to the above effect, the contractor shall be liable to pay interest at SBI PLR+2% per annum for the period of delay.

96. Access to the contractor's books:

Whenever it is considered necessary by the Engineer-in-Charge to ascertain the actual cost of execution of any particular extra item of work or supply of the plant or material on which

advance is to be made or of extra items or claims, he shall direct the contractor to produce the relevant documents such as payrolls, records of personnel, invoices of materials and any or all data relevant to the item or necessary to determine its cost etc. and the contractor shall when so required furnish all information pertaining to the aforesaid items in the mode and manner that may be specified by the Engineer-in-Charge.

97. Drawing to be kept at site:

One copy of the drawings furnished to the contractor shall be kept by the contractor on the site and the same shall at all reasonable time be available for inspection and use by the Engineer-in-Charge and the Engineer-in-Charge's representative and by any other persons authorized by the Engineer-in-Charge in writing.

98. B.I.S. [I.S.I.] books, MoRT&H / APSS to be kept at site:

A complete set of Indian Standard specification, MoRT&H Specification (4th revision referred to in "Technical Specifications" and A.P.S.S. shall be kept at site for reference.

99. Site Order Book:

An order book shall be kept at the site of the work. As far as possible, all orders regarding the work are to be entered in this book. All entries shall be signed and dated by the Department Officer in direct charge of the work and by the contractor or by his representative. In important cases, the Deputy General Manager(T) or the Chief General Manager(T) will countersign the entries, which have been made. The order book shall not be removed from the work, except with the written permission of the Deputy General Manager(T).

100. Variations by way of modification, omissions or additions:

For all modifications, omissions from or additions to the drawings and specifications, the Deputy General Manager(T) will issue revised plans, or written instructions, or both and no modification, omission or addition shall be made unless so authorized and directed by the Deputy General Manager(T) in writing.

The Deputy General Manager(T) shall have the privilege of ordering modifications, omission or additions at any time before the completion of the work and such orders shall not operate to annul those portions of the specifications with which said changes do not conflict.

Engineer-in-Charge's Decision:

It shall be accepted as in separable part of the contract that in matters regarding materials, workmanship, removal of improper work, interpretation of the contract drawings and contract specification, mode of the procedure and the carrying out of the work, the decision of the Engineer-in-Charge, which shall be given in writing shall be binding on the contractor.

101. Care and diversion of river/stream:

The contractor shall submit details regarding the diversion and care of river or stream during construction of the work along with a separate print-out of the time table showing earliest and latest start and finish dates of various activities. He should submit a detailed layout plan with drawings for the diversion and care of river during construction of work. The above arrangements shall be at contractor's cost.

102. Income tax

- a) During the currency of the contract deduction of income tax at 2.00% shall be made from the gross value of each bill of the contract, the contract value of which is in excess of Rs.20,000/- for deduction of tax at rates lower than 2.00% procedure stipulated under section 194-C(4) of Income Tax Act, 1961 shall be followed.
- b) Income Tax clearance certificate should be furnished before the payment of final bill.
- c) The contractor's staff, personnel and labour will be liable to pay personnel income taxes in respect of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws and regulations.

103. Seigniorage charges: G. O. MS No. 18, I & C(MI) Dept., Dt.31-03-2022

103.1 Seigniorage charges will be recovered as per rules from the work bills of the contract or based on the theoretical requirement materials at the following rates.

S. No.	Material	Seigniorage
1.	Sand	Rs: 27.00 / Cum
2.	Metal	Rs: 65.00 / Cum
3.	R.R stone for masonry	Rs: 65.00 / Cum
4.	C.R.S stone	Rs: 65.00 / Cum
5.	Gravel./ Earth	Rs: 20.00 / Cum

100.2 The rates are liable to be revised and amended from time to time by the State Government, by notification in the 'Telangana Gazettee'. If the revised seigniorage fee is more than the above mentioned, the recovery from the contractor's bills is as per revised rates, **without modifying the proposed seigniorage charges as mentioned above.**

100.2 The seigniorage charges are to be recovered as provided in the agreement. Any escalation in these charge beyond the provisions of the agreement are to be borne by the department debiting such escalated amount to the works estimate concerned.

100.3 Deleted

104. Value Added Tax (VAT): Deleted

103.1. GST will be applicable as per G.O MS No.67, I&CAD (Reforms) Dept, Dt : 04.07.2018.

105. Supply of construction materials:

- i) The contractor has to make his own arrangements for procurements, supply and use of construction materials.
- ii) All materials so procured should confirm to the relevant specifications indicated in the bidding documents.
- iii) The contractor shall follow all regulations of the Department/Government of India in respect of import licences etc., of the procurement of the materials is through imports and he shall be responsible for the payment of applicable duties and taxes, port clearances, inland transportation etc.
- iv) The contractor shall make his own arrangements for adequate storage of the materials.

- a. The contractor shall purchase Bitumen / Emulsion only from the reputed firm i.e., HPCL, BPCL and IOCL. They shall not be permitted to use CRMB bought from private manufactures
- b. The contactors shall procure original bills towards purchase of bitumen / emulsion while submitting the bills for payment.

Deputy General Manager(T) (HGCL) Concerned should endorse the name of work on the bills / vouchers / invoices for which the bitumen / emulsion is utilized to avoid reuse of bills on other works.

The contractors shall order and procure the bitumen / emulsion work wise so that the contractor obtain invoice / bills work wise and submit the same to the Deputy General Manager(T) (HGCL) concerned while preparing the bills.

- c. The contractor shall procure the quality control equipment, which is required for day-to-day laboratory tests and also to procure any other equipment, which is essential during the work period.

[Any other special conditions applicable to the work put to Tender.]

Technical Specifications:

1.1.1. Additional Specifications

The following Clauses have been added to the “**Specifications For Road And Bridge Works**”(Fourth Revision – 2001, Reprint December 2003)

- A-01 Diversion of Existing water courses
- A-02 Plantation of low height shrubs
- A-03 Interlocking Concrete blocks
- A-04 Rain water Harvesting Structure
- A-05 Reinforced Retaining Wall
- A-06 Specification for Reinforced Earth Retaining Structures
- A-07 Raised Pavement Markers (Road Studs)
- A-08 Rumble strips
- A-09 Speed Breakers
- A-10 Chute Drains for High Embankment sections

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- A-11 Grating across CRS drain
- A-12 Traffic Management & Safety during construction operations including solar traffic safety devices.
- A-13 Utility Ducts and Crossing
- A-14 Re-construction of Temples or Religious Places.
- A-15 Curing using Liquid Membrane Forming compound
- A-16 Void Former
- A-17 Water proof cement painting
- A-18 Filling of Open Wells.
- A-19 Leveling and Grading Road Side Land
- A-20 Control Blasting
- A-21 High Mast Lighting
- A-22 Lighting Arrangements

1.1.2. In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specifications of IRC, BIS, BS, ASTM and AASHTO in that order. Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the Engineer and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor. Wherever reference is made in the Contract to specific standards codes to be met by the materials, plant, and other supplies to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect up to 28 days prior to the bid opening date shall apply, unless otherwise expressly stated in the Contract where such standards and codes are national, or relate to a particular country of region, other internationally recognised standards which ensure a substantially equal or higher performance than the standards and codes specified will be accepted subject to the Engineer's prior review and written approval. Difference between the standards specified and the proposed alternative standards must be fully described in writing by the Contractor and submitted to the Engineer at least 28 days prior to the date when the Contractor desires the Engineer's approval. In the event the Engineer determines that such proposed deviations do not ensure substantially equal performance, the Contractor shall comply with the standards specified in the documents. Technical Specifications for Building works

shall be the latest “Specifications volume I to IV, 1995” as published by the Central Public Works Department, Government of India and deemed to be bound into this document.

1.2. PART-III Specifications for Buildings, Subways and Miscellaneous Works

Technical Specifications for Buildings, Subways, and miscellaneous works shall be the latest Specifications Volume-I to VI for Civil Works and General Specifications Electrical Works Part I-INTERNAL, PART II-EXTERNAL for Electrical Works as published by the Central Public Works Department (CPWD), Government of India and deemed to be bound into this document.

2.4 The latest edition of all specifications/standards till 28 days before the final date of submission of the bid shall be applicable.

PART – I

GENERAL TECHNICAL SPECIFICATIONS

1. This part shall comprise the “**Specifications For Road And Bridge Works**” (*Fourth Revision – 2001, Reprint December 2003*), as corrected in the original issued by the Ministry of Road Transport & Highways (MORTH), Government of India and published by the Indian Roads Congress (IRC), Jamnagar House, Shahjahan Road, New Delhi – 110 011, all as deemed to be bound into this document.

1 General conditions regarding use of equipment on works: In addition to the general conditions already indicated in Volume-I (of Bidding Documents), the following requirements regarding the use of equipment in works shall be satisfied. a) The contractor shall be required to give a trial run of the equipment for specification and tolerance establishing adequacy to meet the requirements of specifications and completion of work as per programme before commencement of work; b) All equipment provided shall be of proven efficiency and shall be operated and maintained at all times in a manner as specified by the manufacturers or industry practice. Regular reports on proper and adequate maintenance shall be submitted to the Engineer in the format and at intervals as approved by the Engineer.

c) No equipment or personnel shall be removed from site without permission of the Engineer.

2 Where the term crushed stone is referred to in the Specification for Road & Bridge Works of the MORTH (Clause 1007) for use as aggregate in construction of pavement layers or in construction of culverts & bridges or in construction of cross drainage works it shall mean that the aggregates shall be obtained through the use of Cone crusher, Vertical Shaft Impactor and vibratory screens of suitable capacity.

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1 Quality Control on Works & Materials.

Quality control on materials and execution remains the primary responsibility of the Contractor. Nevertheless, the Engineer will inspect the work from time to time during and after construction and get the quality of the work tested (by himself, by his Testing & Quality Control Units and/or by any other agency deemed fit by him) generally as per the requirements of the Handbook of Quality Control for Construction of Roads & Runways (IRC Special Publication No. 11 & Section-900 of MORTH Specifications).

2 Surveying & Measuring Equipments

The Contractor for his use shall procure equipment for surveying and measurement of the work. The same shall also be made available to the Engineer at site for any work connected with the Contract without any charge.

PART – II

SUPPLEMENTARY TECHNICAL SPECIFICATION

(AMENDMENTS/MODIFICATIONS/ADDITIONS TO EXISTING CLAUSES OF GENERAL TECHNICAL SPECIFICATIONS – PART - I)

SECTION 100 GENERAL

CLAUSE 102 Definitions

The following abbreviations shall be added in this Clause.

“BIS” - Bureau of Indian Standards

“CPCB” - Central Pollution Control Board

“HDPE” - High Density Polyethylene

“MDD” - Maximum Dry Density (as per IS: 2720-Part 8)

“MORTH” - Ministry of Road Transport and Highways

“HGCL” - Hyderabad Growth Corridor Limited

“BOQ” - Bill of Quantities

“QA” - Quality Assurance

“OGL” - Original Ground Levels

“CRMB” - Crumbed rubber modified Bitumen

“DLC” - Dry Lean Concrete

“PQC” - Pavement Quality Concrete

“BM” - Bituminous Macadam

“DBM” - Dense Bituminous Macadam

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“BC” - Bituminous concrete

The latest editions of these standards till 28 (Twenty Eight) days prior to the bid opening date shall be adopted.

Scope of Work

Scope of Work

“WMM” - Wet Mix Macadam

“CECRI” - Central Electro Chemical Research Institute

“NHAI” - National Highways Authority of India

“TMT” - Thermo Mechanically Treated

“ASA” - Acrylic Strene Acrylonitrity

“HIPS” - High Impact Polystrene

“CIL” - Co-efficient of luminous intensity

“RPM” - Reflective Pavement Marker

“ECB” - Emergency Call Boxes

“VMS” - Variable Message Signs

“DP” - Double Pole

“ER” - Electrical Resistivity

“REC” - Rural Electrification Corporation

“APCPDCL”- Andhra Pradesh Central Power Distribution Company Ltd.

“SPCB” -State Pollution Control Board

“ASTM” -American Society for Testing and Materials

“AASHTO” -American Association of State Highway and Transportation Officials

“MUV” -Multipurpose Utility Vehicle

“SUV” -Sports Utility Vehicle

“DCP” -Dynamic Cone Penetration

“FIDIC” -Federation Internationale des Ingenieurs
Conseils

“MNES” -Minister of Non-Conventional Energy Sources

“HYSD” -High Yield Strength Deformed bars

“PSV” - Polished Stone Value

“WPC” -Wireless Planning and Coordination

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“AIV” -Aggregate Impact Value
“ACV” -Aggregate Crush Value
“IRC” -Indian Road Congress
“BS” -British Standard
“PMC” -Polymer Modified Cementitious
“MARV” -Minimum Average Roll Value
“ESC” -Environmental Stress Cracking
“PP” -Poly Propylene
“SMF” -Scaled Maintenance Free
“CPWD” -Central Public Works Department
“LED” -Light Emitting Diode
“ATM” -Asynchronous Transfer Mode
“ITS” - Intelligent Transportation System
“TIS” -Traffic Information Services
“IRI” -International Roughness Index

“The Contractor shall establish, adhere to, monitor and maintain an adequate quality assurance programme (QA-programme) based on the requirements of EN ISO 9001.

The Contractor shall institute and operate a Quality Management System complying with SP-47 (Quality Systems for Road Bridges) and SP-57 (Quality System for Roads). The quality management system shall be described in a Quality Assurance Plan that shall be submitted to the Engineer for acceptance not later than 28 days after the letter of Acceptance. The costs associated with preparing implementing and monitoring the quality management system shall be deemed to be covered in the scope of the work. The Quality Assurance Plan shall cover the following items. The QA-programme shall cover the quality assurance aspects of all services rendered, all items to be supplied and all construction activities to be performed under the Contract, also including temporary structures and equipment which will influence the quality of the completed works or the progress of the Contract. **The contractor should submit the Design of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump from reputed/notified consultancy before execution of the same.** The QA-programme shall as a minimum cover subjects listed below:

Organisation and Management Responsibility Document and data control

Construction programme

Method statements

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Process control

Working, inspection, testing and documentation
procedures

Safety and emergency procedures

Control and documentation of purchasing and handling of
materials

Product realisation

Non-conformity and corrective / preventive action

Measurement, analysis and improvement

Internal quality audits

Servicing

Education and training of staff

Site Environmental Plan

Competence / skill requirement for Human resources

Customer communication

The general procedures of the QA-programme shall be submitted to the Engineer for approval not later than twenty-eight days after the date of receipt of letter of acceptance. The special part of the QA-programme shall be submitted successively to the effect that it shall have been approved prior to the commencement of the activities to which the programme shall apply”.

The Contractor shall take steps to minimize the negative impact of construction operations on environment. Hot Mix Plants should be located at least 1-2 Km from the nearest habitation unless otherwise required by statutory requirements. Vehicles and machinery used for road construction are to be regularly maintained to conform to SPCB (State Pollution Control Board) norms. Blasting as per Indian Explosive Act will be adopted. People living near such blasting site should have prior information of operation hours. Workers at blasting site will be provided with earplugs. Vehicle transporting earth materials will be covered. Water shall be spread to control the dust Degraded materials and wastewater shall be disposed into the Septic Tank and soak pits etc. The contractor will make arrangement to clean up the spoil as soon as the work finishes in a stretch. If such sites are located outside the ROW, restoration of the site to a level acceptable to the landowner will be done with in time period agreed between landowner and the contractor. Spilling of oil and bituminous products during construction phase will be avoided to reduce the chances of contamination of surface as well as ground water. The construction camps shall be situated at places involving least risks of the nature considering the factors like ground slopes, underground

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water table and shall conform to local building regulations, as applicable. Construction camps shall be properly located to avoid contamination of water through wastewater drainage into river and canals. Seasonal pollution issues may arise when flow of river is slow. To prevent such contamination, wastewater generated at campsite will be discharged in soak pits. For human excreta, proper disposal through Septic Tanks or deep trenches will be done.

CONSTRUCTION EQUIPMENT

Add the following sub Para (g) and (h) after sub Para (f):

g) Adequate standby equipment including spare parts shall be available. h) All measuring devices and gauges shall be in good working condition. Measuring devices that can affect product quality shall be calibrated prior to use and at prescribed intervals against certified equipment. Calibration procedures shall be established, maintained and documented and corrective actions taken when results are unsatisfactory. Accuracy and fitness of measuring devices shall be ensured by proper maintenance and periodic tests to be carried out to check the accuracy of all such equipment and get certificate from the Engineer”.

Surveying Equipment and Personnel

The Contractor shall provide the necessary surveying equipment, accessories, surveyors and labourers required for setting out and related measurements, including making available these to the Engineer and his representatives at different stages of the work. The surveying equipment shall be of high standard of manufacture as approved by the Engineer, in good working condition with adequate numbers and shall include inter alia the following:

- i. Precision automatic level with micrometer attachment with tripod and leveling staff reading to 5 mm accuracy by direct observation and to 1 mm accuracy by estimation or better.
- ii. The delite with tripod – Electronically operated with computerised output attachment reading to 20 seconds of angle accuracy or better.
- iii. Total Station with 2 spare batteries and a charger, three tripods plus tangents sufficient for a 4 km range, together with an electronic data reorder, 6 data packs and all necessary software for operation.
- iv. Precision staffs 4m & 5m type
- v. 3 metre straight edge and measuring wedge fitted with handles, wedges 100 mm height and 1 mm accuracy.
- vi. Field umbrellas
- vii. Ranging rods 50 mm diameter 3 m long straight with a conical metallic shoe at one end and painted alternatively black and white at 300 mm C / C along the length.

- viii. Camber templates 2 lane fitted with handles.
- ix. Steel tape graduated in metres, centimetres and millimetres
 - a) 10 m long
 - b) 20m long
 - c) 50m long
 - d) Reference markers and pegs
- x. Safety Jackets (Reflective)
- xi. Bump Integrator (Wheel mounted)
- xii. Nails, chalk piece, paints, brushes etc,

The Contractor shall maintain the surveying equipment in good condition during the full duration of works and replace the ones which get worn out or otherwise become unworkable. The surveying equipment and related resources shall be provided under the general obligations of the Contractor requiring no separate payment.

Pollution from Hot Mix Plant, WMM Plant, Batching Plant & Crusher and Other Construction Machinery

The Contractor shall ensure the use of a relatively new, well maintained hot mix plant (batch type) so that any emission conforms to the CPCB norms and be fitted with a dust extraction unit to avoid prolonged engine powered equipment illness. Hot Mix Plant, WMM plant Batching Plant & Crusher shall be located more than 500 m from any community or residence. The contractor has to obtain necessary consent/clearance from State Pollution Control Board to operate Hot Mix Plant, WMM plant Batching Plant & Crusher before commencement of works. All vehicles, equipments and machinery needed for construction will be regularly maintained to ensure that pollution emission levels conform to CPCB norms. All vehicles should be fitted with silencers. Construction vehicles, machinery & equipment will move or be stationed in designated areas to avoid compaction of soil to ensure the preservation of the top soil for agriculture.

Road Safety

The Contractor shall provide adequate circuit for traffic flow around construction areas, control speed of construction vehicles through road safety and training of drivers, provide adequate signage, barriers and flag persons for traffic control. If there are traffic jams during construction, measures shall be taken to relieve the congestion with the assistance of traffic police. Safety of workers undertaking various operations during construction will be ensured by providing helmets, masks, safety goggles, etc. One Qualified Safety Officer and one Safety Supervisor must be available in the contractor's working team for the entire construction period.

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Sanitation & Waste Disposal in Construction Camp

The Contractor shall ensure that construction camps are located at a distance of minimum 200m from water sources. Special attention shall be paid to the sanitary conditions of the camps. The Contractor shall ensure that sufficient measures are taken i.e. provision of garbage tanks and sanitation facilities. Waste in septic tanks shall be cleaned periodically. Garbage shall be collected in four soakage pits at each construction site and disposed of daily. The Contractor shall provide adequate measures for the health care of workers and arrange their regular medical check-up to ensure that they do not suffer from any communicable disease. At every workplace, good & sufficient water supply will be maintained to avoid waterborne / water related diseases. If any pits are dug at construction / camp sites which are not filled and then may turn into mosquito breeding sites during monsoons, either these shall be filled up properly so that no water accumulates or sprayed frequently with pesticides to prevent mosquito breeding.

Substance Hazardous to Health

The Contractor shall not use or generate any material in the works, which is hazardous to the health of persons, animals or vegetation. Where it is necessary to use some such substance which can cause injury to the health of the workers, the Contractor shall provide suitable protective clothing or appliances to his workers, viz. earplugs, helmets or dust masks.

Any structural damage caused to the existing roads/structures by the Contractor's construction equipment shall be made good without any extra cost.

Use of Nuclear Gauges

Nuclear gauges shall be used only where permitted by the Engineer. The Contractor shall provide the Engineer with a copy of the regulations governing the safe use of nuclear gauges he intends to employ and shall abide by such regulations. Without written approval, no such equipment shall be used at any level of the work.

Environmental Monitoring

In order to carry out periodic checks, environmental monitoring will be carried out by the Engineer as per schedule and if any parameter is found above the acceptable standards, mitigation measures / control measures as decided by the Engineer shall be complied with by the Contractor.

Protection of Existing Trees

Some of the existing trees within the right of way are likely to be cut down by the Employer prior to handing over of the site to the contractor. The Contractor shall take all necessary measures to ensure safety and protection of the remaining trees from any action whatsoever relating to his

construction operations in the adjoining areas. Giant neighborhood trees recognized locally as important shall be preserved and engineering designs modified to accommodate these wherever possible. Adequate supply of fuel (Kerosene, LPG) shall be provided to the construction labourers to avoid felling of trees for cooking and other household activities.

Disposal of Materials Outside Work Site

Notwithstanding other relevant provisions in the contract, the excess material generated by dismantling, excavation, waste material and lubricants, used oil, gasoline and other such substance etc., shall be removed from site outside the right of way at regular intervals and site shall be kept clean from all such disposable materials. Grease, cotton and other waste construction materials shall be disposed off in shallow soakage wells constructed at each construction site. Such intervals shall not exceed one month under any circumstances. The selection of the disposal site shall be the responsibility of the Contractor and he shall ensure that the selected site does not result in any claim for damages to the Employer or violation of any existing laws.

1.0 DRAWINGS:

- 2.1 The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The premium quoted by the contractor for various items shall hold good for execution of work even with altered plans.
- 2.2 One set of drawings, on the basis of which actual execution of the work is to proceed shall be furnished free of cost to the contractor by the Chief General Manager(T) / Deputy General Manager(T) progressively according to the work program submitted by the contractor and accepted by the Chief General Manager(T) / Deputy General Manager(T). Drawings for any particular activity shall be issued to the contractor at least 30 days in advance of the scheduled date of the start of the activity. However, no extra claims by the contractor toward any delay in issue of drawing or issue of any revision / change to the drawings issued earlier shall be admissible. The Chief General Manager(T) shall intimate the contractor 7 days in advance regarding any delay to issue of drawings, for any particular stage of works. If work gets effected due to delay to issue of drawings, for any particular stage of work the contractor shall be granted extension of time in terms of condition 14.7 of tender notice.
- 2.3 Signed drawings above shall not be deemed to be an order for work unless they are entered in the agreement or schedule of drawings under proper alterations of the contractor and Deputy General Manager(T) or unless they have been sent to the contractor by the Deputy General Manager(T) with a covering letter confirming that the drawing is in and authority for work in contract.

2.0 DISCREPANCIES:

- 2.1 In case of discrepancies between documents the following order of procedure shall apply:-

- 2.1.1 Between the written description of written dimensions in the drawings and the corresponding one in the specifications, the latter shall apply.
- 2.1.2 Figured dimensions shall supersede scaled dimensions. The drawings on a larger scale shall take precedence over those on a smaller scale.
- 2.1.3 Drawings issued as construction drawings from time to time shall supersede tender drawings and also the correspondence drawings previously issued.

Note: The contractor should not execute any component of work without obtaining the working drawings. Any work done without drawings shall be at the contractors responsibility only. Acceptance for such work will be at the discretion of the Deputy General Manager(T).

3.0 SECRECY CLAUSE:

The drawings and specifications made available to the tenderer shall exclusively be used on the work and they are retained from passing on each plan to any un-authorized hand either in parts or in full under the provisions of Section-3 and 5 of the official secrets Act 1923. Any violation in this regard will entail suitable action under appropriate clause or official secret Act 1923.

Name of Work: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

BILL OF QUANTITIES

PREAMBLE

1. The Bill of Quantities shall be read in conjunction with the instructions to Tenderers, General and Special conditions of Contract Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional and are given to provide common basis for tendering. *The quantities here given are those upon which the lumpsum tender cost of the work is based but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done.* The basis of payment will be actual quantities of work ordered and carried out as measured by the Contractor and verified by the Engineer and valued at the estimate rate plus or minus tender percentage quoted in the Bill of Quantities where applicable, and otherwise at such rates and prices as the Engineer-in-Charge may fix within the terms of Contract.
3. The estimate rates in the Bill of Quantities shall, except in so-far as it is otherwise provided under the Contract include cost of all constructional material, labour, machinery,

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transportation, erection, maintenance, profit, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract.

4. The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The Tender percentage quoted by the tenderer shall hold good for execution of work even with altered plans.
5. The whole cost of complying with the provisions of the Contract shall be included in the estimated rates for items provided in the Bill of Quantities and where no items are provided in the Bill of Quantities, their cost shall be deemed to be distributed among the estimate rates entered for the related items of work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering estimate rate against each item in the Bill of Quantities.
7. The method of measurements of completed work for payment shall be in accordance with the relevant B.I.S. Codes & A. P. S. Specifications.
8. All items of work are to be executed as per the drawings / specifications supplied with the contract documents. If there is any contradiction between the drawings and the text of the specifications, the later shall prevail.
9. The Tenderer should inspect and select the quarries of his choice before he quotes the tender percentage in the Schedule of Bill of Quantities and satisfy himself about the availability of required quantum of materials.
10. Diversion drains should be excavated before completion of the embankments and the useful soils should be used in the nearby embankments.
11. The actual mix proportion by weight to be adopted during execution will be got designed in the laboratories to suit the grade of concrete and mortar to be used. It will be the responsibility of the contractor to manufacture concrete and mortar of required strength.
12. The quantum of measurement for all items of earthwork involving conveyance manually or by machinery shall be as assessed by level measurement. The measurements for the embankment will be for the consolidated banks only.
13. Wherever bailing out of water is involved either for excavation or for foundations or for constructions, the percentage quoted shall take into account the de-watering charges necessary. No separate payment will be made for de-watering.
14. Wherever embankment work is involved, useful soils approved by the Engineer-in-Charge from the cutting reaches and diversion drains shall be taken and used for forming nearby embankments soils used for constructions will be at free of cost.
15. The quoted tender percentage shall also include the work of any kind necessary for the due and satisfactory construction, completion and maintenance of the works according to the drawings and these specifications and further drawings and orders that may be issued by the

Engineer-in-Charge from time to time. The quoted tender percentage shall include compliance by the Contractor with all the general conditions of contract, whether specifically mentioned or not in the various clauses of these specifications, all materials, machinery, plant, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop staff, labour and the provision of proper and sufficient protective works, diversions, temporary fencing and lighting. It shall also include safety of workers, first aid equipment suitable accommodation for the staff and workmen, with adequate sanitary arrangements, the effecting and maintenance of all insurance, the payment of all wages, salaries, fees, royalties / Taxes, duties or other charges arising out of the execution of works and the regular clearance of rubbish, reinstatement and clearing-up of the site as may be required on completion of works safety of the public and protection of the works and adjoining land. The work of Building in quality control / assurance shall be deemed to be covered in the quoted percentage.

16. The Contractor shall ensure that, the quoted tender percentage shall cover all stages of work such as setting out, selection of materials, selection of construction methods, selection of equipment and plant, deployment of personnel and supervisory staff, quality control testing etc. The work quality assurance shall be deemed to be covered in the tender percentage.
17. a) The special attention of the tenderer is drawn to the conditions in the tender notices wherein reference has been made to the Andhra Pradesh Standard Specifications [APSS] and the Standard preliminary specifications containing therein. These preliminary specifications shall apply to the agreement to be entered into between the contractor and the Government of Andhra Pradesh and shall form an inseparable condition of the contract along with the estimate. All these documents taken together shall be deemed to form one contract and shall be complimentary to another.
b) The tenderer shall examine, closely the A.P.S.S. / MORT&H and also the standard preliminary specifications contained therein and sign the Chief General Manager(T)'s office copy of the APSS / MORT&H and its addenda volume in token of such study before submitting his overall tender percentage which shall be for finished work in-situ. He shall also carefully study the drawings and additional specifications and all the documents, which form part of the agreement to be entered into by the successful tenderer. The APSS / MORT&H and other documents connected with contract such as estimate plans, specifications, can be seen on all working days in the office of the Chief General Manager(T), HGCL.
18. The tenderers attention is directed to requirements for materials under the clause 'materials and workmanship' in the preliminary specifications of APSS. Materials conforming to the Bureau of Indian Standards specifications, APSS etc., shall be used on the work and the tenderers shall quote his overall tender percentage accordingly.
19. The tenderer has to do his own testing of materials and satisfy himself that they conform to the specifications of respective I.S.I. Codes before tendering.
20. The contractor shall himself procure the required construction materials of approved quality including the earth for formation of embankment and water from quarries / sources of his

choice. All such quarries / sources of materials required for the work shall be got approved by the Engineer-in-Charge in writing well before their use of the work.

21. The contractor shall himself procure the steel, cement, Bitumen, Blasting materials, sand, metal, soils, etc., and such other materials required for the work well in advance. The contractor has to bear the cost of materials for conveyance. The department will not take any responsibility for fluctuations in market in cost of the materials, transportation and for loss of materials etc.
22. Inspection of site and quarries by the tenderer: Every tenderer is expected before quoting his overall tender percentage, to inspect the site of proposed work. He should also inspect the quarries and satisfy himself about the quality, and availability of materials. The best class of materials to be obtained from quarries, or other sources shall be used on the work. In every case the materials must comply with the relevant standard specifications. Samples of materials as called for in the standard specifications or in this tender notice, or as required by the Deputy General Manager(T), in any case, shall be submitted for the Deputy General Manager(T)'s approval before the supply to site of work is begun.
23. The tenderer's particular attention is drawn to the sections and clauses in the A.P. standard specification dealing with
 - a) Test, inspection and rejection of defective materials and work.
 - b) Carriage
 - c) Construction plant
 - d) Water and lighting
 - e) Cleaning up during the progress and for delivery.
 - f) Accidents
 - g) Delays
 - h) Particulars of payments.

The contractor should closely peruse all the specification clauses, which govern the overall tender percentage he is tendering.

24. The defect liability period of contract in terms of GO Ms.No.8, T,R&B Dept., dt:8.1.2003 is twenty four months.
25. The estimate rates for items shown in the Schedule "A" include all construction materials. No escalation in rates will be paid unless specified in the tender document. The tenderer has to quote an overall tender percentage considering all the aspects of the tender to complete the finished item of work as per the APSS / MORT&H / B.I.S. specifications, the special specifications appended, Drawings etc.
26. If there is any contradiction between APSS / MORT&H and B.I.S. specifications, listed and detailed technical specifications, the latter shall prevail.
27. In case of a job for which specifications are not available with the Schedule or in APSS / MORT&H or B.I.S. code and are required to be prescribed, such work shall be carried out in accordance with the written instructions of the Engineer-in-charge.
28. The contractor should use the excavated useful soils and stone for construction purpose. Soils used for construction either for homogeneous section in hearting or in casing zone

based on the suitability will be at free of cost and the cost of stone used for construction purpose will be recovered from the contractors bill.

The contractor should quote his tender percentage keeping in view of the above aspects.

29. Additions and alternations by the Tenderer in the Schedule of quantities will disqualify the tender.
30. In the case of discrepancies between the written description of the item in the Schedule "A" and the detailed description in the specification of the same item, the latter shall be adopted.
31. The Unit rates noted below are those governing payment of extras or deductions for omissions according to the conditions or the contract as set-forth in the preliminary specifications of the A.P. standard specifications and other conditions of specification of this contract.
32. It is to be expressly understood that the measured work is to be taken according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Deputy General Manager(T) and the cost calculated by measurement or weight at their respective rates without any additional charge for any necessary or contingent works connected works connected herewith. The Percentage Excess or less on ECV quoted are for works in situ and complete in every respect.
33. For all items of work in excess of the quantities indicated the rates payable for such excess quantities will be tendered rates i.e., estimate rates plus or minus tender percentage.
34. For all items of work, intermediate payment will be made provisionally as per relevant clause. Full-accepted agreement rates will be paid only after all the items of works are completed.
35. The contractor is bound to execute all supplemental works that are found essential incidental and inevitable during execution of main work.
36. The payment of rates for supplement items of work will be regulated as under.

Supplemental items directly deductible from similar items in the original agreement.

The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials labour between the new items and similar items in the agreement worked out with reference to the schedule of rates adopted in the sanctioned estimate with which the tenders are compared.

- a) Similar items but the rates of which cannot be directly deducted from the original agreement.
- b) Purely new items which do not correspond to any item in the agreement.

The rate of all such items shall be estimated rates plus or minus overall tender percentage.

37. ENTRUSTMENT OF ADDITIONAL ITEMS.
 - a) Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with tenders and if the value of such items exceeds the limits up to which the officer is empowered

- to entrust works initially to contractor without calling for tenders approval of next higher authority shall be obtained. Entrustment of all such items on nomination shall be rates not exceeding the estimate rates.
- b) Entrustment of supplement items contingent on the main work will be authorised by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original agreement rates for such items shall be worked in accordance with the procedure prescribed in GO Ms.No.1493 PWD, dated: 25-10-1971 and as amended in Govt. Memo number 544 cod 72-22 dated: 06-07-1973.
 - c) Entrustment of either the additional supplemental items shall be further subject to the provisions under para 176(b) of APWD Code Viz., the items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

Note: It may be noted that the term estimate rate used above means the rate in the sanctioned estimate with which the tender's compared or if no such rate is available in the estimate the rate derived will be with reference to the schedule of rates adopted in the sanctioned estimate with which tenders are compared.

BILL OF QUANTITIES

[Part-I]

Name of work Given in the Estimate: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

S.No	Approximate Quantity In figures/ words	Description of work	Specification No. / APSS / BIS / MORT&H	Unit In figures / words	Estimate Rate In figures / words	Amount in Rs.
		Schedule - A Enclosed				

Contractor

Chief General Manager(T), HGCL

BILL OF QUANTITIES

Part-II

The rates mentioned in Schedule “A” are inclusive of Over head charges excluding GST.

The Reimbursable amounts are as follows

- a. GST applicable as per G.O Ms No.67,I&CAD(REFORMS),Dept:04-07-2018
- b. Seigniorage charges
- c. NAC@0.10%
- d. DMF and SMET on seigniorage charges as per rules in vogue

The recoveries amounts are as follows

- a. Labour cess@1%
- b. IT

PRICE BID
[to be placed in the COVER -'B']

Name of work Given in the Estimate: “Design & Construction of 500 KL Over Head Service Reservoir (OHSR) & 250 KL Underground Sump in Koheda Layout in Sy.No.507 of Koheda (v), Hayathnagar (M), Ranga Reddy District”.

ESTIMATED CONTRACT VALUE (IN FIGURES & WORDS): Rs 1,39,00,000/- (Rupees: One Crore Thirty Nine Lakhs only)

I Sri / Smt./M/s. _____, do hereby express my willingness to execute the aforesaid work as per the conditions, standards, specifications, rules, regulations, etc., stipulated in the tender documents.

- a) at an overall tender percentage of (in figures) (in words) **excess / less** over estimated value.
- b) At an Estimated Contract Value

SIGNATURE, NAME OF THE TENDERER / AUTHORISED SIGNATORY.

Contractor

Chief General Manager(T), HGCL

FORMATS OF SECURITIES

PROFORMA
BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

WHEREAS (Name of the Contractor)
(here in after called “the Tenderer”) has submitted his tender response to NIT
No..... dated:..... for the work “
.....”
(Name of work) (hereinafter called “the tender”).

KNOWN ALL MEN by these present that we
..... (Name and Address of Bank)
..... (hereinafter called “the Bank” are bound unto
..... / (name of the designated PAO) in the sum of *
.....
for which payment will and truly to be made to the said Department, the Bank binds itself, his
successors and assigns by these presents.

SEALED with the Common Seal of the Bank this day of200....

THE CONDITIONS of this obligation are:-

- (1) If after Tender opening the tenderer withdraws or modifies his Bid during the period of bid validity specified in the Form of Tender.
- (2) If the Tenderer having been notified of the acceptance of his bid by the Department during the period of validity.
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or
 - (b) fails or refuses to furnish the balance EMD and additional performance Security in accordance with the instructions of Tenderers.

We undertake to pay to the Department up to the above amount upon receipt of his first written demand, without the Department having to substantiate his demand, provided that in his demand the Department will note the amount claimed by him is due to him owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date**
..... after the dead line for submission of Tenders as such deadline is stated in the Instructions to Tenders or as it may be extended by the Department, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

Contractor

Chief General Manager(T), HGCL

DATE..... SIGNATURE OF THE BANK

WITNESS..... SEAL.....

(Signature, Name and Address)

-
- * The Tenderer should insert the amount of the EMD in words and figures denominated in Indian Rupee. This figure should be the same as shown in the NIT.
 - ** 6 months for the deadline date for submission of Tender. Date should be inserted by the Department before the Tender documents are issued.

PROFORMA

BANK GUARANTEE FOR BALANCE “E.M.D.”

_____ (name & address of Department)

WHEREAS _____

_____ (name and address of Contractor) (hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. _____ dated: _____ to execute the work of _____ [name of work];

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a Schedule bank for the sum specified therein as balance EMD / EMD for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee] _____ [in words], such sum being payable and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to..... i.e., until 28 days from the date of expiry of the Defects Liability period.

Signature & seal of the Guarantor _____

Name of Bank _____

Address _____

Date _____

Contractor

Chief General Manager(T), HGCL

PROFORMA

BANK GUARANTEE FOR ADDITIONAL FURTHER SECURITY

_____ (name and address of Department)

WHEREAS _____ (name and address of Contractor)
(hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. _____
dated: _____ to execute _____ [name of Contract and brief
description of works] (hereinafter called “the Contractor”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a Schedule bank for the sum specified therein as Additional further security bank guarantee for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs. _____ [amount of guarantee] _____ [in words], such sum being payable and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to and until 28 days from the date completion.

Signature & seal of the Guarantor _____
Name of Bank _____
Address _____
Date _____

Contractor

Chief General Manager(T), HGCL

**PROFORMA
BANK GUARANTEE FOR MOBILISATION ADVANCE**

To

(name & Address of Agreement Authority)

Sub:- _____(name of the work)

Gentlemen:

In accordance with the provisions of the Conditions of Contract, Mobilisation advance for the above-mentioned Contract, _____ [name and address of Contractor] (hereinafter called “the Contractor”) shall deposit with _____ [name of Department] a bank guarantee to guarantee his proper and faithful performance under the said Contract for an amount of Rs. _____ [amount of guarantee]¹ _____ (in words).

We, the _____ [bank], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Department] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, for the amount not exceeding _____ (amount of guarantee)³ _____ (in words).

We further agree that no change or addition to or other modification of the terms of the Contract or of works to be performed there under or of any of the Contractor documents which may be made between _____ [name of Department] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Department] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and seal: _____
Name of Bank/Financial Institution: _____
Address: _____
Date: _____

¹ An amount shall be inserted by the bank representing the amount of the Advance Payment, and denominated in Indian Rupees.

Contractor

Chief General Manager(T), HGCL

FORM OF SOLVENCY CERTIFICATES BY MANDAL REVENUE OFFICER

ANNEXURE – I (A).

I, _____ Mandal Revenue Officer, of _____ do hereby certify, on being satisfied by the Examination of Revenue and other records and local enquiries that _____ [here the name and address of the contractor should be mentioned] is solvent to the extent of Rs. _____ [Rupees _____].

Date :

Place:

**MANDAL REVENUE OFFICER
SEAL OF THE OFFICE**

ANNEXURE – I (B).

FORM OF SOLVENCY CERTIFICATE BY BANKS

I, _____ Managing Director / Manager / General Manager / Agent of _____ Bank Limited do hereby certify that a _____ [here the Names and addresses of the contractor] to be solvent to the extent of Rs. _____ [Rupees _____] as disclosed by the information and record which are available with the aforesaid bank.

For the _____ Bank

Date:

Place:

**Signature of Bank Manager
[Authorised to Sign]**

Note:

Contractor

Chief General Manager(T), HGCL