

OFFICE OF THE EXECUTIVE ENGINEER  
DOIMUKH DIVISION, PWD, AP :DOIMUKH



ITEM RATE e-TENDER IN DOUBLE BID

Name of Work	:	C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)
Estimated Cost Put to Tender	:	Rs. 59,29,31,000/-
Earnest Money	:	Rs. 59, 30,000/-for APST. Contractors Rs. 69, 30,000/-for Non APST. Contractors
Bid Fee	:	Rs. 25,000.00
Time for completion of work	:	24 (Twenty Four) Months
Date of opening of Technical Bid	:	03/07/2026 at 02.00 PM
NIT No.	:	DD/2026-27/01
Performance Guarantee	:	5% of Tender Amount
Security Deposit	:	2.5% of Tender Amount

Certified that this Notice Inviting Tender documents contains 01 to 147. (147) pages only including Index page but excluding cover pages.

Sd/- Executive Engineer  
PWD Doimukh Division

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**Name of Work: C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridge).**

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**Sd/-**  
**Executive Engineer**  
PWD, DoimukhDivision

**GOVERNMENT OF ARUNACHAL PRADESH  
OFFICE OF THE EXECUTIVE ENGINEER, DOIMUKH DIVISION,  
PWD, PAPUM PARE DISTRICT ARUNACHAL PRADESH.**

No.:DD/W-73/2026-27/ 900-05

Dated, 08/06/2026.

**Notice Inviting e-Tender**

**The Executive Engineer, Doimukh Division, APPWD, Doimukh** on behalf of the **Governor of Arunachal Pradesh** invites **online item rate tender in Double bid system** from all registered contractors in **Class-IAA category or above** (Civil category) enlisted under the Arunachal Pradesh PWD or contractor of equivalent category as per the Arunachal Pradesh District based Entrepreneurs and Professionals incentives, Development & Promotional Act 2015 with up to date amendments notified time to time in accordance with amendments to AP enlistment in Works Department Rules 2008 vide Notification No. SPWD/W-336/Contract/2006-07/1079 Dtd. 01/10/2018 as per Act No.-7 vide Notification No. law/ laegn-23/2020 dated 02-11-2020.247,Vol. XXVII Dated 2nd Nov'2020 for the following work:

Sl. No.	NIT No.	Name of work & Location	Estimated Cost (inclusive of all taxes & GST)	Earnest Money	Time of completion
1	2	3	4	5	6
1.	DD/2026-27/01	C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridge).	<b>Rs. 5929.31 Lakhs.</b>	Rs 59.30 Lakh for APST Contractors Rs 69.30 Lakh for Non-APST Contractors	<b>24 Months</b>

Note: Contractors of equivalent category means bidding capacity above Rs 50.00 crores.

- Period of downloading of bidding document : From **09/06/2026, 1000 Hrs. To 29/06/2026, 1600 Hrs.**
- Start date & time of submission of bid : 09/06/2026, 1000Hrs.
- Last date & time of submission of bid : 29/06/2026, 1600Hrs.
- Date & time of opening of Technical Bid : 03/07/2026, 1400Hrs.
- Date & time of opening of Financial Bid : To be Notified later on  
**(In the office of the Executive Engineer, Doimukh Division, APPWD, Doimukh)**

The tender forms and other details can be obtained from the website <https://arunachaltenders.gov.in> The Press Notice is also available in website: [www.arunachalpwd.org](http://www.arunachalpwd.org).

The bids can be submitted in electronic format in the website <https://arunachaltenders.gov.in> within the specified time by paying bid fee (non-refundable) in the form of demand draft of Rs. 25000/- (Rupees Twenty Five Thousand) only drawn in favour of **“Executive Engineer, Doimukh Division PWD, AP, Doimukh, Arunachal Pradesh**, payable at any scheduled Bank, at Naharlagun for the work listed in the tender. Before submission of online bids, the bidders must ensure that the scanned copy of all the necessary documents have been attached with the Bids. The details of the cost of documents and the Bid Security specified in the tender document should be same as submitted online (Scanned copies), otherwise will be summarily rejected. The department does not take any responsibility for delay caused due to non-availability or slow internet connection or network, traffic jam etc for online bids.

Criteria of eligibility for APPWD contractors as well as Non-APPWD Contractors.

- ~~1. In the larger interest of the public and for equitable distribution of development works amongst eligible contractors and also to ensure effective management and quality of works, a contractor shall be allowed to have maximum number of only 3 (three) existing works in hand in any of departments under Government of Arunachal Pradesh at a time and for which he shall make a declaration to be executed in an Affidavit that he is not presently engaged in more than two tender works under the State Government of Arunachal Pradesh, to be eligible to participate in tender work. (Deleted)~~
- ~~2. Permanent Residential Certificate (PRC) issued by competent authority regarding domicile status within Papum Pare District as per Rule 4 (ii) (b) of AP District Based Entrepreneurs and Professionals Rules 2015. (Deleted)~~
3. Average annual financial turn over (gross) not less than 50% of ECPT.
4. Not have incurred any loss in more than two years during the last five years as per balance sheets.
5. Bidding capacity of bidder shall be equal to or more than the ECPT.
6. The Requisite criteria for work experience credential in the last **5 (Five) years** ending last day of the month before the one in which the tenders are invited shall be as under –
  - a) Bridge & Road Works with 3 (Three) similar works each of value not less than ₹ 2377.72 Lakh (40% of estimated cost), OR,
  - b) Bridge & Road Works with 2 (two) similar works each of value not less than ₹ 3566.59 Lakh (60% of estimated cost), OR,
  - c) Bridge & Road Works with 1 (One) similar work of value not less than ₹ 4755.45 Lakh (80% of estimated cost).

Similar Works means: - C/o Bridge & Road Work.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of receipt of applications for tender. The work is of specialized nature.

7. In anticipation of sanction , the tender is initiated in advance. But letter of award (LoA) shall be issued in accord of Administrative Approval and Expenditure Sanction and allocation of fund for the work by the Govt. of Arunachal Pradesh.

Sd/-  
**Executive Engineer**  
 Doimukh Division,  
 PWD AP. Doimukh

No.:DD/W-73/2026-27/ 900-05

Dated, 08/06/2026.

Copy forwarded to:-

- 1) The Chief Engineer (WZ), PWD, AP, Itanagar for information please.
- 2) The Superintending Engineer, Capital Circle, PWD, AP, Itanagar, for information please.
- 3) The Deputy Commissioner, Papum Pare District, Yupia, AP for information please.
- 4) The Assistant Engineers, Balijan Sub-Division, PWD for information.
- 5) Notice Board.

Sd/-  
**Executive Engineer**  
 Doimukh Division,  
 PWD AP. Doimukh

Press Notice for publication in News papers

**GOVERNMENT OF ARUNACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

**NOTICE INVITING e-TENDER**

The Executive Engineer, Doimukh Division, PWD, Arunachal Pradesh, Doimukh invites on behalf of Governor of Arunachal Pradesh online item rate in single bid system for following work:-

NIT No. ~~DD/2024-25/~~

DELETED

Name of Work:-

The bid forms and other details can be downloaded from the website ~~<https://arunachaltenders.gov.in>~~ from: ~~1000hrs. of /11/2024.~~

**Not to be publicized:**

**Instructions for publication in newspapers:**

1. Main title "A.P.P.W.D." and "NOTICE INVITING TENDER" with black background in white letters should not be more than 9 font size and should be in bold letters.
2. Rest of the matter should not be more than 8 font size and should be in normal form.
3. Website address <https://arunachaltenders.gov.in> should be in bold letters and size should not be more than 8 font size.
4. The advertisement should only be published in classified columns.
5. If press notice is published in larger size which is not as per the above directions, no payment shall be made.
6. Press Release in print media at least 2 (Two) widely circulated local news paper should be publish for wide circulation.

Sd/-Executive Engineer  
PWD Doimukh Division,

**CPWD Form-6 for e-Tendering**

1. **The Executive Engineer, Doimukh Division, APPWD, Doimukh** on behalf of the **Governor of Arunachal Pradesh** invites **online item rate tender in Double bid system** from all registered contractors in **Class-IAA category or above** (Civil category) enlisted under the Arunachal Pradesh PWD or contractor of equivalent category as per the Arunachal Pradesh District based Entrepreneurs and Professionals incentives, Development & Promotional Act 2015 with up to date amendments notified time to time in accordance with amendments to AP enlistment in Works Department Rules 2008 vide Notification No. SPWD/W-336/Contract/2006-07/1079 Dtd. 01/10/2018 as per Act No.-7 vide Notification No. law/laegn-23/2020 dated 02-11-2020.247, Vol. XXVII Dated 2nd Nov'2020 for the following work:-

2.

Name of work : **C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges).**

Estimated Cost put to tender : **Rs 5929.31 Lakhs**

Period of completion : **24 (Twenty Four) Months**

Date & time of opening of Technical bid : **03/07/2026, 1400Hrs.**

The enlistment of the contractors should be valid on the last date of submission of bids.

1.1 The work is estimated to cost. **Rs 5929.31 Lakhs** This estimate, however, is given merely as a rough guide.

~~1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite tender, besides indicating the combined estimated cost put to tender, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to tender.~~

~~1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-~~

~~Criteria of eligibility for submission of bid documents. Deleted~~

~~1.2.1 Deleted~~

1.3 Criteria of eligibility for APPWD contractors.

1.3.1 **Bridge & Road Works with 3 (Three) similar works each** of value not less than **Rs 2377.72 Lakh (40% of estimated cost), OR,**

1.3.2 **Bridge & Road Works with 2 (two) similar works each of value not less than Rs 3566.59 Lakhs (60% of estimated cost), OR,**

1.3.3 **Bridge & Road Works with 1 (One) similar work of value not less than Rs 4755.45 Lakh (80% of estimated cost).**

[all figures rounded to nearest convenient figure]

in last 5 years ending previous day of last date of submission of bids. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.

For the purpose of this clause “similar work” means the works of “**Bridge & Road Construction works**” in hilly/Plain terrain with same nature “*on his own and specifically not as a Sub- Contractor agency or Back-to-Back Contractor.*”

**To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under: -**

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid).

1.2.3 - -Deleted-

- 4 Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 8 which is available as a Govt. of India/ Govt. of Arunachal Pradesh publication and also available on website- <https://arunachaltenders.gov.in> Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 5 The time allowed for carrying out the work will be **24 (Twenty Four) months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
- 6 (i) The site for the work is available.
- 7 The bid document consisting of schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://arunachaltenders.gov.in> free of cost.
- 8 After submission of the bid the contractor can re-submit revised bid any number of times before last time and date of submission of bid as notified.
- 9 While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) before last time and date of submission of bid as notified.

- 10 ***Earnest Money for Rs 59.30 Lakh for APST contractor & Rs 69.30 Lakh for APST contractors, in the form of / Demand Draft/Fixed Deposit receipt (drawn in favour of Executive Engineer, Doimukh Division, PWD, AP, Doimukh) shall be scanned and uploaded to the e- Tendering website within the period of bid submission.***

The original EMD should be deposited in the office of the Executive Engineer Doimukh Division, PWD, AP; and Doimukh within the period of bid submission. The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (Enclosed) uploaded by Tender inviting EE in the NIT. ***This receipt shall also be uploaded to the e-tendering website by the intending bidders up to the specified bid submission date and time.***

**(No part of earnest money is acceptable in the form of bank guarantee).**

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice/ online tender notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. *However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by all bidders physically in the office of tender opening authority before or at the time of opening of tender.*

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD deposited with the division office and other documents scanned and uploaded are found in order.

- 11 The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if,
- i. The bidder is found ineligible.
  - ii. The bidder does not deposit original EMD with the Division Office of the Executive Engineer, Doimukh Division, PWD, AP, Doimukh.
  - iii. The bidder does not upload scanned copies of all the documents stipulated in the bid documents.
  - iv. The Bidder fails to submit the Manufacturer's Quality Assurance Plan in favour of the Bidder of Construction Materials & Jobs of importance and Critical nature.
  - v. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copy as submitted physically by the lowest bidders in the office of the tender opening authority.
  - vi. If a tenderer quotes nil rates against each item in item rate tender the tender shall be treated as invalid and will not be considered as lowest tenderer.

- 12 The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1, 00,000/-) or Fixed Deposit Receipts of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.

The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule- F.

13 The description of the work is as follows: -

C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)

The Sub Head of Works components of the works are: -

1. De-launching existing Steel Bailey Bridges = 1 Job.
2. 15 M Span Bridge over Batt Nallah at 4.200 Km
3. 30 M Span Bridge Across Moin Nallah at 8.600 Km
4. 30 M Span Bridge Across Dader Nallah at 9.972 Km
5. 90 M Span Bridge Across Poma River at 18.375 Km
6. Counterfort Retaining Wall 12.00 Mtr Height = 72.00 Mtr
7. RCC Box Culvert = 2 Nos
8. Retaining Wall 2.50 Mtr Height = 350 m Length
9. RCC Breast Wall 2.50 Mtr Height = 660 Length
10. CC Drain Length = 3047 Mtr
11. CC Drain with RCC Cover Slab Length = 432 Mtr
12. Road Furniture = 1 job.

Intending Bidders are advised to ***inspect and examine the site and its surroundings and satisfy themselves before submitting their bids*** as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

***An Affidavit in the matter of bidder's personal inspection and examination of the site and its surroundings and satisfy themselves of all local conditions before submitting their bids shall be submitted.***

- 14 The competent authority on behalf of the Governor of Arunachal Pradesh does not bind itself to accept the lowest bid (L1) or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected. (Bidder should carefully read and understand this clause before bidding)
- 15 Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 16 The competent authority on behalf of Governor of Arunachal Pradesh reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
- 17 The contractor shall not be permitted to bid for works in the PWD Circle responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazette Officer in the Public Works Department. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
- 18 No Engineer of Gazette Rank or other Gazette Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of Arunachal Pradesh is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of Arunachal Pradesh in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of Arunachal Pradesh as aforesaid before submission of the bid or engagement in the contractor's service.
- 19 ***The bid for the works shall remain open for acceptance for a period of 120 (One Hundred Twenty) days from the date of opening of bids in case of single bid system.*** If any bidder withdraws his tenders or make any modifications in the terms & condition of the tender which is not acceptable to the department within 7 days after opening of tender (excluding date of opening of tender) then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit **50%** of the said earnest money absolutely. After 7 days of opening of tender the Government shall without prejudice to any other right or remedy, be at liberty to forfeit **100%** of the said earnest money absolutely (DG/MAN/391 dated 12.12.2019). Further the bidders shall not be allowed to participate in the rebidding process of the work.
- 20 This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
  - a) The Notice Inviting Bid, all the documents including additional conditions, specification and drawing, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - b) Standard CPWD Form 8 or other standard CPWD Form as applicable.

21 **For Composite Bids-**

- 19.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 19.1.2 The bid document will include following three components:
- Part A:-**CPWD-6, CPWD-8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2014 as amended/modified up to till date.
- Part B:-**General / specific conditions, specifications and schedule of quantities applicable to major component of the work.
- Part C:-**Schedule A to F for minor component of the work. (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.
- 19.1.3 The bidders must associate himself, with agencies of the appropriate class eligible to bid for each of the minor component individually.
- 19.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 19.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the Governor of Arunachal Pradesh. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and Part B of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.
- 19.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 19.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.
- 19.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).
- 19.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 19.1.10 The main contractor has to enter into agreement with contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to **EE** in charge of each minor component as well as to **EE** in charge of major

component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.

19.1.11 Running payment for the major component shall be made by **EE** of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer in- charge of the discipline of minor component directly to the main contractor.

19.1.12A. *The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components. (Added vide OM DG/MAN/270 dt. 01.05.2013)*

19.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

~~22 — In the larger interest of the public and for equitable distribution of development works amongst eligible contractors and also to ensure effective management and quality of works, a contractor shall be allowed to have maximum nos of only 3 (three) works in hand in any of departments under Government of Arunachal Pradesh at a time and for which he shall make a declaration to be executed in an Affidavit that he **is not engaged in more than 2(two) tender works under the State Government of Arunachal Pradesh to be eligible to participate in this tender work.** Deleted~~

23 The quoted rate are inclusive of all taxes i/c 1% labour cess nothing extra shall be added/paid to the contractor. Quoted rates should invariably included the anticipated escalation of rates during execution period.

24 The rates will be valid up to defect liabilities period

25 Single tender shall not be entertain in order to upheld the fair competitions from multiple bidders.

26 No PA (Power of attorney) holder shall be allowed to participate.

27 The contractor shall compulsory sign in the PWD form-8 at page-26.

28 The main contractor enters into MOU with agencies associated by him for execution of specialized component as per NIT conditions.

29 **In anticipation of sanction the tender is initiated in advance. But Letter of Award (LoA) shall be issued on accord of Administrative Approval and Expenditure Sanction and allocation of fund for the work by the Govt. of Arunachal Pradesh.**

**Sd/-**  
**Executive Engineer,**  
**PWD Doimukh Division**  
**For & on behalf of Governor of Arunachal Pradesh**

**RECEIPT OF DEPOSITION OF ORIGINAL EMD**

(Receipt No...../Date.....)

- 1) Name of Work: C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)
- 2) NIT No :DD/2026-27/01
- 3) Estimated Cost: Rs 5929.31 Lakhs\*
- 4) Amount of Earnest Money Deposit: -
  - (a) For APST Contractor : Rs 59.30 Lakh\*
  - (b) For APST Contractor : Rs 69.30 Lakh\*
- 5) Last Date of Submission of Bid: -.....\*

(\*To be filled by NIT receiving authority/EE at the time of issue of NIT and uploaded along with NIT)

- 1) Name of Contractor ..... #
- 2) Form of EMD ..... #
- 3) Amount of EMD ..... #
- 4) Date of Submission of EMD .....#
- 5) Email ID .....#

Signature,  
Name and Designation of EMD  
Receiving officer (ASW)  
along with Office Stamp

(\*To be filled by EMD receiving ASW or NIT issuing EE as the case may be).

**AMENDMENTS TO TENDER FORMS/CONTRACT DOCUMENT/  
GENERAL GUIDELINES & DEFINITIONS**

1. In place of “President of India”, please read it as “Governor of Arunachal Pradesh”.
2. In place of “Government of India”, please read “Government of Arunachal Pradesh”.
3. In place of “Central Government”, please read “State Government of Arunachal Pradesh”.
4. In place of “CPWD/PWD”, please read “APPWD”.
5. In place of “DGW (Director General of Works)”, please read “CE [Chief Engineer (Western Zone), PWD, Arunachal Pradesh]”.
6. “Engineer - in – charge” means Executive Engineer, Doimukh Division, PWD, Doimukh.
7. **“Project”** means “C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) ( 4 Nos Bridges)"on Item rate basis.
8. “Site” means the place where the buildings and associated infrastructures are to be constructed.
9. “Bid (s)” shall mean the offer submitted by a Bidder in accordance with this document for the above project.
10. “Bidder/ Contractor” means a firm that has submitted its Bid or Bids for the Project.
11. “Completion Date” is the date of completion of the Works as certified by the Engineer.
12. “Contract” is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works.
13. “Contractor's Bid” is the final completed technical and financial submission upon the online submission of the Bid and subsequent submission of documents to be submitted in the physical form as required under the ITB.
14. “Contract Price” is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
15. Language of the Contract is in English and English version of tender shall prevail. The standard form along with General Condition of contract shall also form a part of Tender document to be issued to intending bidders for better understanding and to be referred as ready reckoned for evaluation and work ability of cost.
16. Employer means “ The state Govt. of Arunachal Pradesh.”
17. Competent Authority means “The Superintending Engineer” Capital Circle PWD, AP, Itanagar.

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING  
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE  
(Applicable for inviting open bids)**

**The Executive Engineer, Doimukh Division, APPWD, Doimukh** on behalf of the **Governor of Arunachal Pradesh** invites **online item rate tender in Double bid system** from all registered contractors in **Class-IAA category or above** (Civil category) enlisted under the Arunachal Pradesh PWD or contractor of equivalent category as per the Arunachal Pradesh District based Entrepreneurs and Professionals incentives, Development & Promotional Act 2015 with up to date amendments notified time to time in accordance with amendments to AP enlistment in Works Department Rules 2008 vide Notification No. SPWD/W-336/Contract/2006-07/1079 Dtd. 01/10/2018 as per Act No.-7 vide Notification No. law/ laegn-23/2020 dated 02-11-2020.247, Vol. XXVII Dated 2nd Nov'2020 for the following work:-

S l. N o.	NIT No.	Name of work and location	Estimated cost put to bid	Earnest Money	Period of completion	Last date & time of submission of bid, EMD and other Document as specified in the press notice	Date & time of opening of Technical bid
1	2	3	4	5	6	7	8
1.	DD/2026-27/01	C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)	Rs 5929.31 Lakh.	Rs 59.30 Lakh for APST Contractors Rs 69.30 Lakh for APST Contractors	24 (Twenty Four) Months	Up to 04.00 PM on 29/06/2026	03/07/2026 1400 hrs

Opening of Financial Bid shall be notified later on.

Contractors fulfill the following requirements shall be eligible to apply.

1. **Joint ventures and Power of Attorney holders are not accepted.**
2. **Condition for APPWD as well as Non-APPWD contractors.** Contractor who fulfils the following requirements shall be eligible to apply failing which such bidder shall be considered as non responsive one and shall be liable rejected.
  - (a) Should have satisfactorily completed the works as mentioned below during the last 5 (Five) years ending previous day of last date of submission of bids.
    - (i) **Bridge & Road Works with 3 (Three) similar works each of value not less than Rs 2377.72 Lakh (40% of estimated cost), OR,**
    - (ii) **Bridge & Road Works with 2 (two) similar works each of value not less than Rs 3566.59 Lakh (60% of estimated cost), OR,**
    - (iii) **Bridge & Road Works with 1 (One) similar work of value not less than Rs 4755.45 Lakh (80% of estimated cost).**

In last 5 years ending previous day of last date of submission of bids. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.

Similar work shall mean works of Bridge & Road construction.

- (b) Should have had average annual financial turnover of **Rs. 2972.16 Lakh** (Estimated cost put to tender) on construction works during the last three years ending 31<sup>st</sup> March 2024. (Scanned copy of Certificate from CA to be uploaded).
  - (c) Should not have incurred any loss (profit after tax should be positive) in more than 3 (Three) years during the last five years ending 31<sup>st</sup> March 2024, duly certified by the Chartered Accountant.
  - (d) Should have a solvency of **Rs 2377.72 Lakhs (40% of estimated cost put to tender)** certified by his Bankers. (Scanned copy of original solvency to be uploaded).
  - (e) The bidding capacity of the contractor should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula: Bidding Capacity =  $\{[AxNx1.5]-B\}$  Where, A = Maximum *turnover* in construction works executed in any one year during the last five years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum calculated from the date of completion to last date of receipt of applications for tenders. N = Number of years prescribed for completion of work for which bids has been invited. B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.
3. The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
  4. Information and Instructions for bidders posted on website shall form part of bid document.
  5. The bid document consisting of Plans, Specifications, the Schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://arunachaltender.gov.in> free of cost.
  6. But the bid can only be submitted after deposition of original EMD in the office the **Executive Engineer** inviting bid within the period of bid submission and uploading the mandatory scanned documents such as Demand Draft or Fixed Deposit Receipts and Bank guarantee of any Scheduled Bank towards EMD in favour of **Executive Engineer, Doimukh Division, PWD, AP, Doimukh** as mentioned in e-NIT, receipt for depositing of original EMD to division office of the Executive Engineer and other documents as specified  
**(Earnest money in the form of Bank Guarantee shall not be accepted).**
  7. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on website.
  8. The intending bidder must have valid class-III digital signature certificate to submit the bid.
  9. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
  10. Contractor can upload documents in the form of **JPG** format and **PDF** format.

11. **Certificate of Financial Turn-over:** At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning Financial Turnover of last5(five) years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. Audited Balance Sheet, Profit-Loss Statement for the period of time frame prescribed in the ITB.

12. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

13. The Technical Bid shall be opened first on due date and time as mentioned above. The time and date of opening of Financial bid of contractor qualifying the technical bid shall be communicated to them at a later date.

14. Pre-Bid conference shall be held in the chamber of Executive Engineer, Doimukh Division, PWD, AP, Doimukh, AP, Itanagar at, **1100 Hrs on 16/06/2026** clear the doubt of intending bidders, if any.

15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

16. **Condition for e-Tendering:**

- (a) All the key dates and deadlines will be followed as per the time schedule unless explicitly amended through a corrigendum. The interested contractors/bidders can download bidding documents from the e-tendering website <https://arunachaltenders.gov.in> Amendment/Addendum to the bidding documents if any, and further notifications shall appear in this website.
- (b) All amendments issued will be published on the website <https://arunachaltenders.gov.in> It is the prerogative of the contractors to visit the aforementioned site for corrigendum, addendum and amendment notices. These notices have to be read in conjunction with the tender document and have to be signed and submitted in their technical response along with the bid.
- (c) The contractor/ bidder must be registered with the Electronic Tendering System (ETS) of PWD, Arunachal website <https://arunachaltenders.gov.in> for this purpose, the contractors/bidders may use the help file published on the portal or contact, for further guidance and compliance.
- (d) A sum of non-refundable SERVICE FEES may be paid online to <https://arunachaltenders.gov.in> in order to participate on tender. However, contractors can download documents free of cost.

~~17. List of Documents to be scanned and uploaded within the period of bid submission:~~

- ~~i. Receipt of deposition of original EMD to Division office of the Executive Engineer, Doimukh Division, PWD, AP, Doimukh and receipt of deposition of Bid fee.~~
- ~~ii. Demand Draft/FDR/ of any Scheduled Bank against EMD.~~
- ~~iii. Enlistment order of the contractor.~~
- ~~iv. Certificates of Work Experience.~~
- ~~v. Certificate of Financial Turnover from CA for the last 5 (five) years.~~
- ~~vi. Bank Solvency Certificate, Tax certificate, / Tax exemption certificate.~~
- ~~vii. Any other documents specified in the press notice/bidding documents.~~
- ~~viii. Affidavit as per provisions of clause 1.2 of CPWD-6~~
- ~~ix. GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder.~~
- ~~x. PAN Card, APST Certificate, PRC Certificate & EPIC Card.~~

~~— If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents.~~

~~“If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by AP:PWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by AP::PWD or GST department in this regard.~~

- ~~xi. As per the latest Government notification, it is mandatory on the part of all the Organization and establishment to file GST returns on regular basis. All intending bidders **shall submit Proof of filing of GST returns on regular basis** failing which bids are liable to be rejected **latest GSTR-3B** up to dated May 2026 shall be uploaded with undertaking of its authenticity.~~
- ~~xii. Police verification certificate.~~

~~18. The contractor shall have to produce/furnish the following documents at the time of opening their tender. Deleted.~~

~~(A) **Mandatory for PWD registered Contractors as well as Non-APPWD Contractors :**~~

- ~~(a) Receipt of deposition of original EMD and receipt of deposition of Bid fee.  
[EMD in any form of Bank Guarantee shall not be accepted]~~
- ~~(b) Copy of valid contractor registration certificate.~~
- ~~(c) An Affidavit for declaration that the bidder is not engaged in more than 2(two) any tenders works under the State Government of Arunachal Pradesh.~~
- ~~(d) An Affidavit/Undertaking for bid validity acceptance for 120 (One hundred twenty) days.~~
- ~~(e) An affidavit signed by the Magistrate declaring the following Information.~~
  - ~~(i) Name, address and contact number of the establishment under which the contractor is enlisted.~~
  - ~~(ii) An Affidavit in the matter of that the bidder(s) has personally inspected and examined the site and its surroundings and satisfy himself/herself of all local conditions before submitting their bids and the statement made / furnished are true and correct.~~

- (iii) Contractor class- IAA enlistment No. and Sl. No. of enlistment.
- (iv) Website address of the registering authority for online verification.
- ~~(f) Permanent Residence Certificate (PRC): Deleted~~
- (g) No due certificate from Apex Bank issued by Managing Director.
- (h) GST registration certificate and record of evidence for submission of *latest up to May end 2026 GST* returns (GSTR-3B).
- (i) PAN card, Police verification certificate.
- (j) Bidders Profile with Address of communication with mobile number, e-mail ID etc.
- (k) Bankers Details in Undertaking with countersigned/acknowledgement of the Banker.
- (l) Letter of Transmittal.
- (m) Annual Financial Turnover statement for the last 5 (five) year duly audited by Chartered Accountant (in **Form 'A'**) with supporting documents.
- (n) Report on the financial standing of the bidder, Profit/loss statement during the last 5 (five) years ending 31st March 2026 duly certified by the Chartered Accountant.
- (o) Bank solvency certificate amounting to Rs. 2377.72 lakhs (40% of estimated cost of put to tender) in **Form 'B'**.
- (p) Details of works of similar nature completed during the last 5 (Five) years (in **Form-'C'**) with supporting documents, failure which the bid shall be rejected.
- (q) Details of projects under execution or awarded (in **Form 'D'**) with supporting documents.
- (r) Particulars of completed works and performance of the bidder duly authenticated/certified by an officer not below the rank of Executive Engineer or equivalent for each work completed or in progress (in **Form'E'**).
- (s) Structure & Organization details (in **Form'F'**).
- (t) Details of Technical & Administrative personnel to be employed for the work (in **Form 'G'**) with their Certificates of qualification and experience etc.
- (u) Details of construction plant and equipment likely to be used in carrying out the work as mentioned in Schedule A to F (in **Form H'**) with its Ownership / hiring certificate.
- (v) Detail All Other Annexure& Submissions of Proforma of Schedule with all clauses is mandatory.
- (w) Employees Provident Fund (EPF) registration certificate.
- (x) The Bidder shall submit the Manufacturer's Quality Assurance Plan in favour of the Bidder of Construction Materials & Jobs of importance and Critical nature as specified in The Special Condition of the tender.
- (y) Undertaking that the bidder shall be able to invest minimum cash up to 25 % of the contract value of the work during implementation of work.
- (z) Authority to seek references from the Bidders Bankers.
- (aa) Police verification certificate.
- (bb) Information regarding any litigation during the last 5(five) years, in which the bidder is involved, the parties concerned and the disputed amount.
- (cc) Evidentiary documents of all Major items of Construction equipment proposed to carry out the contract as per Submission on Proforma of Schedule (Clause-18).

(dd) Affidavit in Undertaking that all the Tools and Machinery as specified in Proforma of Schedule (Clause-18) are in possession with bidder. And if the Bidder is found not complying during execution of work, he/ she may be liable to Penalty on violation under various clauses of the Contract.

(ee) Any other documents specified in the press notice/bidding documents.

18. ~~The rate is inclusive of all taxes i/e 1% labour charge.~~ Deleted

19. The rates will be valid up to defect liabilities period.

20. The bidders shall have to submit hard copies of all documents scanned and uploaded by bidders with supporting documents if any, and other documents as mentioned in the tender documents, with signature & seal of the firm in the form of a booklet with index & proper page numbering in a sealed envelope at the time of opening their tender. Unclear or illegible documents shall be treated as invalid and bid is liable to be rejected. The purpose of hard copy is meant of verification of downloaded documents in case of any ambiguities.

#### **BID OPENING AND EVALUATION**

21. Tender Opening Committee during the opening of Bids shall verify the following documents uploaded during bid submission (original or downloaded copies) as a prerequisite for carrying out further evaluation of technical responsiveness of bidders.

a) Proof of EMD.

b) Proof of payment of Bid fee of Rs 25000/- (Rupees Twenty Five Thousand) only.

c) Valid contractor Registration/Enlistment Certificate as prescribed in e-NIT.

~~d) Affidavit for declaration of not having more than 2 (Two) ongoing works in hand under any department within the Govt. of Arunachal Pradesh Department signed before the Magistrate on or after the date of publication/uploading of NIT in website.~~

~~e) Domicile status in accordance to Rule 4(ii)(b) of the Arunachal Pradesh District Based Entrepreneurs and Professionals (Incentive, Development and Promotional) Rules, 2015. & "Section 3(1) Schedule 7 of the Arunachal Pradesh District Based Entrepreneurs and Professionals (Incentives, Development and Promotional) Amendment Act 2020 & GoAP Notification vide File No. PWD-12/45/2021 Work PWD/1133 dated 11/11/2021.~~ Deleted.

21. a) In addition fulfillment of requirements laid down at section 18, any bid failing to achieve less than 80 (Eighty) marks indicated in evaluation criteria of: -

a) CPWD works manual SOP-2024, Annexure-24/Section-8 of SOP to CPWD works manual-2024 (Part-A)

b) Part-B

1.	Tools & Plants (Prescribed in NIT)	Self-owned and age of T & P below 3 Years will be awarded 100% mark. For leased/Hired T & P, score will be awarded in proportion.
2.	Technical staff (Prescribed in NIT)	

22. Employer or his authorized representative/ Tender Evaluation Committee, if desires, can seek for original copy of documents uploaded by bidder during bid evaluation if downloaded/submitted hard copy document(s) found ineligible/unreadable and bidder is required to submit the same not later than 7 (seven) days from the requisition as such. Failure to respond to these queries shall be deemed as non-responsive as the evaluation process cannot be prolonged beyond the permissible time.

23. Bid Inviting Authority/Employer also reserves the right to seek any clarifications to bidder's credential from the Certificate Issuing Authority referred, and in the event of any ambiguity, doubt or lack of clarity etc., Employer's decision on its admissibility or rejection during bid evaluation shall be final and binding to all.

24. Bid uploaded with fake or forged document if established during evaluation/scrutiny is liable to be rejected with forfeiture of Bid Security/EMD in full submitted by the bidder without any intimation and cannot be challenged.

25. Any compliant/queries related to tender if required be raised during Pre-Bid meeting or during Bid opening only. Minutes of the proceedings/response to query shall be promptly dealt by the tender inviting authority without any delay.
26. Interference with Bid evaluation after opening of Bid at any stage till finalization should not be entertained at any cost. Seeking any bid related information, query etc. after bid opening and during evaluation stage it itself as a violation of contract rule and should be avoided at all stage. Canvassing in any form with the aim/motive of influencing the decision making of the competent authority by bidder or his representative or any public is bound to invite serious legal and criminal procedure liable to be dealt under relevant provisions of Indian Penal Code.
27. No representations, complaints, allegations shall be received or entertained by the tender accepting authority during the course of evaluation and if the situation warrants, same should be routed through tender inviting authority only. No third party other than the bidders who have participated in online bidding can exercise this option. Canvassing in any form during evaluation stage is liable for rejection of bid. (Also refer Clause 13 of PWD Form-6).
28. Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by a Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of his Bid.
29. Canvassing whether directly or indirectly, in connection with bid is strictly prohibited and the bid submitted by the bidder who resorts to canvassing will be liable for rejection including forfeiture of Bid Security.
30. During the detailed evaluation of Bids, the Employer will determine whether each Bid (a) meets the eligibility criteria; (b) has been properly signed; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Bidding documents. Determination of Technical Responsive shall be based on scrutiny carried out by Tender Inviting Authority and duly crosschecked/verified at the respective PWD Circle office along with findings/recommendations given in Annexure-25.
31. A substantially responsive "Technical Bid" is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
32. The bidder whose bid is found to be technically responsive shall permit the Employer and/or his representatives to make physical verification of the major/critical T&Ps. Noncompliance of this condition shall be reason for rejecting of bid.
33. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
34. If a "Financial Bid" is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.
35. "Financial Bids" determined to be substantially responsive; it will be rejected by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
  - a) Where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
  - b) Where there is discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
36. The amount stated in the "Financial Bid" will be corrected by the Employer in accordance with the above procedure and the bid amount adjusted with the concurrence of the Bidder in the following manner:

- (a) If the Bid price increases as a result of these corrections, the amount as stated in the bid will be the 'bid price' and the increase will be treated as rebate;
- (b) If the bid price decreases as a result of the corrections, the decreased amount will be treated as the 'bid price'

**37. Conditions for acceptance of tender:**

- (a) Acceptance of tender will be governed by Para 5.1.9 of CPWD Works Manual 2022 and SOP for CPWD Works Manual 2022-4/1.11 (9),(24) & (25).
  - (b) Any offer (bid value) received less than 20% (twenty percent) of ECPT (Estimated Cost Put to Tender) shall be considered as 'ABNORMALLY LOW BID' and referred as 'ALB' henceforth [Ref:NH-37015/01/2022-H-Part (1) (Comp No. 212632)].
  - (c) Bidder shall also be required to furnish "Additional Performance Security" in case of acceptance of Abnormally Low Bid (ALB). (Refer Clause 48 (b) of IFB).
38. A bid which contains several items in the BoQ which are on realistically priced low and which cannot be substantiated satisfactorily by the bidder may be rejected as non responsive. In the event of "Abnormally Low Bid (ALB)" offered by lowest bidder (L1), employer in accordance with guidelines laid down in Manual for Procurement of Engineering Works (updated June, 2022) and notified by GoI, may seek written clarification from the Bidder, including detailed item-wise price analysis of Bid price/Justification offer with relation to scope and other project elements. If the bidder fails to demonstrate his capability to deliver the project in accordance with project requirement, quality aspects etc, the employer may reject the bid with the consent of next higher authority being non-responsive and not consider as "L1" bid. Any decision regarding rejection of Abnormally Low Bid (ALB) thus cannot be challenged. [Ref: CPWD Procurement of Works (updated June, 2022) – Para 5.6.4]
39. Any bid falling within abnormally low bids (ALB) range therefore, liable to be rejected unless the employer / Govt. of AP is convinced / satisfied on the workability at this offer without compromising with quality of the project. Any decision made as such related to acceptance/rejection of offer at ALB price cannot be challenged.

**40. Performance Security:**

- (a) Within 15 (Fifteen) days of receipt of Letter of Acceptance, the selected Bidder shall furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the forms referred in Clause 1 of GCC for an amount equal to 5% (five percent) of its Bid Price.
  - (b) In case of bids mentioned below, the Selected Bidder, along with the Performance Security, shall also furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the same forms given above towards an "Additional Performance Security" for an amount calculated as under:
    - (i) If the Bid price offered by the selected bidder is lower than 20% of the estimated project cost / cost put to tender, the additional performance security shall be calculated @20% of the difference in the:
      - (a) Estimated Project Cost (as mentioned in RFP) minus 20% of the Estimated Project Cost and
      - (b) The Bid Price offered by the selected Bidder.
    - (ii) Maximum limit of additional performance security shall be limited to 3 (three)% of the Bid price offered by the selected bidder.
    - (iii) The additional performance security shall be treated as part of the performance security.
- [Ref: NH-37015/01/2022-H-Part (1) (Comp No. 212632)]

Sd/-  
Executive Engineer  
PWD Doimukh Division

**LETTER OF TRANSMITTAL**

From:

.....  
.....  
.....

To

The Executive Engineer  
.....  
.....

Subject:- Submission of bids for the work of.....

Sir

Having examined the details given in press notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we have submit requisite certified solvency certificate and authorize the Executive Engineer.....to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/we also authorize Executive Engineer to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following works:

Name of work:-

Enclosures:-

Date of submission:-

Certificate from:-

Seal of bidder:-

Signature(s) of Bidder(s):-

**PROCESS COMPLIANCE FORM**

To,

**Executive Engineer,  
Doimukh Division,  
APPWD, DOIMUKH  
ARUNACHAL PRADESH.**

**SUB :** ACCEPTANCE TO THE PROCESS RELATED TERMS AND CONDITIONS FOR e-TENDERING  
Dear Sir,

This has reference to the Terms and conditions for e-Tendering mentioned in Notice Inviting Tender vide: - \_\_\_\_\_.

We hereby confirm the following: -

- a) The undersigned is the authorized representative of the Company.
- b) We have carefully gone through the NIT & the tender (No. \_\_\_\_\_) and the Rules governing the e-Tendering as mentioned in Arunachal website <https://arunachaltenders.gov.in> as well as this document.
- c) We will honor the Bid submitted by us during the e-Tendering
- d) We give undertaking that if any mistake occurs while submitting the bid from our end, we will honor the same.
- e) We are aware that if the Tender Issuing Authority has to carry out e-Tender again due to our mistake, the Department has the right to disqualify us for the tender.
- f) We confirm that the Tender Issuing Authority shall not be liable & responsible in any manner whatsoever for my / our failure to access & submit offer on the e-Tendering site due to loss of internet connectivity, electricity failure, virus attack, problems with the PC, digital signature certificate or any unforeseen circumstances etc.

With regards,

Signature with Company Seal:

Name:

Company / Organization:

Designation within Company / Organization:

Email ID:

Tel. No.

Mobile No. :

**FORM 'A'**  
**FINANCIAL INFORMATION**

- I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Years				

- (i) Gross Annual turnover on construction works.
- (ii) Profit/Loss.

- II. Financial arrangements for carrying out the proposed work.  
 III. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

Signature of Chartered Accountant with Seal

Signature of Bidder(s).

-----x-----

**FORM 'B'**  
**FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK**

This is to certify that to the best of our knowledge and information that M/s.....having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs.....(in words \_\_\_\_\_ ).

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature)  
For the Bank

- NOTE** (1) Bankers certificates should be on letter head of the Bank, sealed in cover addressed to tender authority.  
 (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

-----x-----

**FORM 'C' (MANDATORY)**  
**DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST FIVE YEARS**  
**ENDING LAST DAY OF THE MONTH MARCH 2021.**

Sl No.	Name of the work/ project and location	Owner or sponsoring organization	Cost of work in Crores of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending/in progress with details*	Name and address/ telephone number of officer to whom reference	Remarks
1	2	3	4	5	6	7	8	9	10

\*Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Bidder(s)

-----x-----

**FORM "D"**  
**PROJECTS UNDER EXECUTION OR AWARDED**

S. N	Name of work/project and location	Owner or sponsoring organization	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Upto date percentage progress of work	Slow progresses if any and reasons thereof	Name and address/ telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Certified that the above list of works is complete and no work has been left out and that the information given is correct to my knowledge and belief.

Signature of Bidder(s)

-----x-----

**FORM 'E'**  
**PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS "C" & "D"**

1. Name of work/project&location :
2. Agreementno. :
3. Estimatedcost :
4. Tenderedcost :
5. Dateof start :
6. Date of completion
  - (i) Stipulated date of completion:
  - (ii) Actual dateofcompletion :
7. Amount of compensation levied for delayed completion, ifany:
8. Amount of reduced rate items, if any:
9. PerformanceReport
  - (1) Qualityofwork : VeryGood/Good/Fair/Poor
  - (2) Financialsoundness : VeryGood/Good/Fair/Poor
  - (3) TechnicalProficiency : Very Good/Good/Fair/Poor
  - (4) Resourcefulness : Very Good/Good/Fair/Poor
  - (5) General Behavior : Very Good/Good/Fair/Poor
  - (6)

Dated:

Executive Engineer orEquivalent

-----x-----

**FORM "F"**  
**STRUCTURE & ORGANISATION**

1. Name & address of the bidder
2. Telephone no./Telex no./Faxno.
3. Legal status of the bidder (attach copies of original document defining the legal status)
  - (a) An Individual
  - (b) A proprietary firm
  - (c) A firm in partnership
  - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies (attach attested photocopy)

**Organization/Place of registration**

**Registration No.**

- 1.
- 2.
5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization
7. Was the bidder ever required to suspend construction for a period of more than six months continuously after he commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the bidder or any constituent partner in case of partnership firm, ever been debarred/black listed for tendering in any organization at any time? If so, give details
10. Has the bidder or any constituent partner in case of partnership firm, ever been convicted by the court of law? If so, give details.
11. In which field of Civil Engineering construction, the bidder has specialization and interest?
12. Any other information considered necessary but not included above.

Signature of Bidder(s)

-----x-----

**FORM 'G'**  
**DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK**

S. No.	Designation	Total number	Number available for this work	Name	Qualifications	Professional experience and details of work carried out	How these would be involved in this work	Remarks
1	2	3	4	5	6	7	8	9

Signature of Bidder(s)

-----x-----

**FORM 'H'**  
**DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK**

S. No.	Name of equipment	Nos	Capacity or type	Age	Condition	Ownership status			Current location	Remarks
						Presently owned	Leased	To be purchased		
1	2	3	4	5	6	7	8	9	10	11

Signature of Bidder(s)

**GOVERNMENT OF ARUNACHAL PRADESH PUBLIC WORKS DEPARTMENT  
Item Rate Tender & Contract for Works**

- (A) Tender for the work of: - C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)
- (i) To be uploaded by **1600 hours on 29/06/2026** to upload at *the official website of e-procurement system of Govt. of Arunachal Pradesh i.e., <https://arunachaltenders.gov.in>*
- (ii) To be opened in presence of tenderer who may be present at **1400 hours on 03/07/2026** in the office chamber of ***Executive Engineer Doimukh Division PWD.***

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Governor of Arunachal Pradesh within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **120 (One Hundred Twenty) days** from the due date of its opening in case of single bid system and not to make any modification in its terms and conditions.

A sum of **Rs 59.30 Lakh for APST & Rs 69.30 Lakh for APST** contractors is hereby forwarded in cash/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank as earnest money.

A copy of earnest money in receipt fixed deposit receipt of scheduled bank/demand draft of a scheduled bank is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Governor of Arunachal Pradesh or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that Governor of Arunachal Pradesh or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor **on back-to-back basis**. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee or both.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated

Signature of Contractor

(The Contractor to sign compulsory)

Witness:

Postal Address

Address:

Occupation:

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Governor of Arunachal Pradesh for a sum of Rs. .... (Rupees.....).

The letters referred to below shall form part of this contract agreement: -

- (a)
- (b)
- (c)

For & on behalf of Governor of Arunachal Pradesh.

Signatures.....

Dated:

Designation.....

**GOVERNMENT OF ARUNACHAL PRADESH  
PUBLIC WORKS DEPARTMENT**

<p>General Rules &amp; Directions</p>	<ol style="list-style-type: none"> <li>1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted by publication in Newspapers or posted on website as the case may be.  This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.</li> <li>2. <del>In the event of tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act 1952.</del></li> <li>3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.</li> </ol>
<p>Applicable For Item Rate Tender only (CPWD-8)</p>	<ol style="list-style-type: none"> <li>4. The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.  In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.  If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, or CE of the zone EE(s) in-charge of major &amp; minor component(s) (also DDH in case Horticulture work is also included in the tender), and the lowest contractors those have quoted equal amount of their tenders.</li> </ol>

	<p>In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.</p> <p>In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractor.</p> <p>Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the retendering process of the work.</p>
<p>Applicable for Percentage Rate Tender Only (CPWD -7)</p> <p><b>- DELETED -</b></p>	<p>4A. Applicable for Percentage Rate Tender only (CPWD-7)</p> <p>In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. The tender submitted shall be treated as invalid if: -</p> <ol style="list-style-type: none"> <li>I. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.</li> <li>II. The percentage above/below is not quoted in figures &amp; words both on the total amount of tender or any section/sub head of the tender.</li> <li>III. The percentage quoted above/below is different in figures &amp; words on the total amount of tender or any section/sub head of the tender.</li> </ol> <p>Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.</p> <p><b>- NOT APPLICABLE -</b></p> <p>4B. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.</p> <p>In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.</p>

	<p>If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, or CE of the zone EE(s) in-charge of major &amp; minor component(s) (also DDH in case Horticulture work is also included in the tender), &amp; the lowest contractors those have quoted equal amount of their tenders.</p> <p>In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.</p> <p style="text-align: center;"><b>- NOT APPLICABLE -</b></p> <p>Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.</p> <ol style="list-style-type: none"> <li>5. The officer inviting tender or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time.</li> <li>6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.</li> <li>7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.</li> </ol>
<p>Applicable for Item Rate Tender only (CPWD-8)</p>	<ol style="list-style-type: none"> <li>8. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.</li> </ol> <p>However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest</p>

<p>Applicable for percentage Rate Tender only (CPWD - 7) <b>- DELETED-</b></p>	<p>tendered <b>and earnest money deposited shall be forfeited.</b></p> <p>9. In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected.</p> <p style="text-align: center;"><b>- NOT APPLICABLE -</b></p> <p>Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.</p>
<p>Applicable for Percentage Rate Tender only (CPWD- 7) <b>- DELETED-</b></p>	<p>10. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.</p> <p>11. (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee of 3% (Three Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank</p> <p>(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 2.5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a Scheduled Bank or will also be accepted for this purpose provided confirmatory advice is enclosed.</p> <p>12. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.</p> <p>13. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, com</p> <p style="text-align: center;"><b>- NOT APPLICABLE -</b></p>

# - NOT APPLICABLE -

ponent  
of GST at time of supply of service (as provided in CGST Act 2017)  
provided by the contract shall be varied if different from that applicable  
on the last date of receipt of tender including extension if any.

14. The contractor shall give a list of both gazetted and non-gazetted C.P.W.D. employees related to him.
15. The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc.
16. The contractor shall submit list of works which are in hand (progress) in the following form:-

Name of work	Name and particulars of Division where work is being executed	Value of work	Position of works in progress	Remarks
1.	2.	3.	4.	5.

Executive Engineer  
PWD Doimukh Division

## **CONDITIONS OF CONTRACT**

### Definitions

1. The Contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the President of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in- Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
  2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
    - i. The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
    - ii. The Site shall mean the land, places on, into or where work is to be executed under the contract or any adjacent land, path or street or where work is to be executed under the contract or any adjacent land, path or street which may be temporarily allotted or used for the purpose of carrying out the contract.
    - iii. The Contractor shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
    - iv. The President means the Governor of Arunachal Pradesh and his successors.
    - v. Government or Government of Arunachal Pradesh shall mean the Governor of Arunachal Pradesh.
    - vi. The Engineer-in-charge means the Engineer Officer who shall supervise and be in charge of the work and who shall sign the contract on behalf of the Governor of Arunachal Pradesh as mentioned in Schedule 'F' hereunder.
    - vii. The terms Director General includes CPM/ADG region/ SDG PR Special Director General / Additional Director General and CPM/ Chief Engineer of the Zone.
    - viii. Accepting Authority shall mean the authority mentioned in Schedule 'F'.
    - ix. Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.
    - x. Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits. Provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract. Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued up to the date of receipt of the tender.
    - xi. Department means PWD or any department of Government of Arunachal Pradesh which invites tenders on behalf of Governor of Arunachal Pradesh as specified in schedule 'F'.
    - xii. District Specifications means the specifications followed by the State Government in the area where the work is to be executed.
    - xiii. Tendered value means the value of the entire work as stipulated in the letter of award.
    - xiv. Date of commencement of work: The date of commencement of work shall be the date of start as specified in schedule 'F' or the first date of handing over of the site; whichever is later, in accordance with the phasing if any, as indicated in the tender document.
- GST shall mean Goods and Service Tax – Central, State and Inter State.

- Scope and Performance
3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
  4. Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
  5. The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender documents. None of these documents shall be used for any purpose other than that of this contract.
- Works to be carried out
6. The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labourers, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule- A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
- Sufficiency of Tender.
7. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
- Signing of Contract
8. The successful tendered/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
    - i. the notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
    - ii. Standard C.P.W.D. Form as mentioned in Schedule 'F' consisting of:
      - a) Various standard clauses with corrections up to the date stipulated in Schedule 'F' along with annexure thereto.
      - b) C.P.W.D. Safety Code.
      - c) Model Rules for the protection of health, sanitary arrangements for workers employed by CPWD or its contractors.
      - d) CPWD Contractor's Labour Regulations. e) List of Acts and omissions for which fines can be imposed.
    - iii. No payment for the work done will be made unless contract is signed by the Contractor.

Executive Engineer  
PWD Doimukh Division.

## General Condition of Contract

### CLAUSES OF CONTRACT

#### Clause1

#### Performance Guarantee

- i. The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- ii. The Performance Guarantee shall be initially valid up to defect liabilities period the stipulated date of completion plus minimum 60 days beyond that, if the same is submitted by the agency on scheduled format I as per GCC. If the same is submitted on the format II as per GCC, then the Performance Guarantee shall be valid up to the stipulated date of completion plus minimum 6 months beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.
- iii. The Engineer-in-Charge shall make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
  - a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
  - b) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- iv. In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Governor of ArunachalPradesh.
- v. On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.

This provisional completion certificate shall be recorded by the concerned Engineer- in-charge with the approval of Superintending Engineer /Project Manager / Chief Engineer/Chief Project Manager, if required. After recording of the provisional Completion Certificate for the work by the competent authority, the 80 % of performance guarantee shall be returned to the contractor, without any interest.

However, in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then 40% of performance guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate.

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit Government at the time of making any payment to him for work done under the contract to deduct a

#### Clause 1 A

#### Recovery of Security Deposit

sum at the rate of **2.5%** of the gross amount of each running and final bill till the sum deducted will amount to security deposit of **2.5%** of the tendered value of the work. Such deductions will be made and held by Government by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in cash or in the form of Government Securities or fixed deposit receipts. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favour of the Engineer-in- Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac. Provided further that the validity of bank guarantee including the one given against the earnest money shall be in conformity with provisions contained in clause 17 which shall be extended from time to time depending upon extension of contract granted under provisions of clause 2 and clause 5.

In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

Note-1: Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Divisional Officer at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld if necessary.

Note-2: Government Securities will include all forms of Securities mentioned in Rule No. 274 of the G.F. Rules except fidelity bond. This will be subject to the observance of the condition mentioned under the rule against each form of security.

Note-3: Note 1 & 2 above shall be applicable for both clause 1 and 1A

## **Clause2**

### **Compensation for Delay**

#### **(I) For Construction Works/EPCProjects**

If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or justified extended date of completion as per clause 5 (excluding any extension under Clause 5.5) as well as any extension granted under clauses 12 and 15, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' may decide on the amount of accepted Tendered Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete.

- |     |                                |  |
|-----|--------------------------------|--|
| (i) | Compensation for delay of work | With maximum rate @ 1% (one percent) per month of delay to be computed on per day basis based on quantum of damage suffered due to stated delay on the part of Contractor. |
|-----|--------------------------------|--|

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10 % (ten percent) of the accepted Tendered Value of work or of the accepted Tendered Value of the Sectional part of work as mentioned in Schedule 'F' for which a separate period of completion is originally given.

In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period. If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under sub clause

5.2, the contractor shall be liable to pay compensation for such delay.

Provided that compensation during the progress of work before the justified extended date of completion for delay under this clause shall be for non-achievement of sectional completion or part handing over of work on stipulated/justified extended date for such part work or if delay affects any other works/services. This is without prejudice to right of action by the Engineer in Charge under clause 3 for delay in and claim of compensation under that clause.

In case action under clause 2 has not been finalized and the work has been determined under clause 3, the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule F, after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after of determination of contract.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

*Clause 2A Incentive for early Completion - Deleted (DG/CON/308 dated 05.12.2019)*

**Clause 2A (II) For Maintenance work estimated cost up to Rs. 25 Lakhs**

Compensation for Delay *Refer DG/CON/307 dated 19.11.2019.*

**Clause 3**

When Contract can be Determined

Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to any other rights or remedy against the contractor in respect of any delay, not following safety norms, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i. If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
- ii. If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- iii. If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.
- iv. If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- v. If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government.
- vi. If the contractor shall enter into a contract with Government in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
- vii. If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.
- viii. If the contractor being an individual, or if a firm, any partner thereof shall at any time be

adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.

- ix. If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
- x. If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
- xi. If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer -in-Charge. When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in- Charge on behalf of the President of India shall have powers:
  - a. To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered, Security deposit payable and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government
  - b. (b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work including any new items needed to complete the work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

### **Clause3 A**

In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits:

- i. If the Tendered value of work is up to Rs.1Crore : 15 days.
- ii. If the Tendered value of work is more than Rs. 1 Crore and uptoRs.10 Crore : 21 days
- iii. If the Tendered value of work exceeds Rs. 10Crore: : 30 days

Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.

**Clause 4**

Contractor liable to pay compensation even if action not taken under Clause 3

In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

**Clause 5**

Time and Extension for Delay

The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited by the Engineer in Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedy available in-law.

**5.1**

(i) As soon as possible but within 7 (seven) working days of award of work and in consideration of

- a) Schedule of handing over of site as specified in the Schedule 'F'
- b) Schedule of issue of designs as specified in the Schedule 'F',

the Contractor shall submit a Time and Progress Chart for each mile stone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-Charge. The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents

- (i) In case of non-submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.
- (ii) The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.
- (iii) The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report.

**5.2**

If the work(s) be delayed by:-

- (i) force majeure, or
- (ii) abnormally bad weather, or
- (iii) serious loss or damage by fire, or
- (iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or
- (v) delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contractor
- (vi) any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is

beyond the Contractor's control.

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s if any for events listed in sub clause 5.2.

- 5.3** In case the work is hindered by the Department or for any reason / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law; provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages.
- 5.4** Request for rescheduling of Mile stones or extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time (Appendix –XVI) respectively to the authority as indicated in Schedule 'F'. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired. With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme which shall include all details of pending drawings and decisions required to complete the contract and also the target dates by which these details should be available without causing any delay in execution of the work. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme.
- 5.4.1** In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the mile stones. Engineer -in-Charge shall finalize/ reschedule a particular mile stone before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the contractor for extension of time E-in- C after affording opportunity to the contractor, may give, supported with a programme (as specified under 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event.
- 5.5** In case the work is delayed by any reasons, in the opinion of the Engineer-in-Charge, by the contractor for reasons beyond the events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and beyond the justified extended date; without prejudice to right to take action under Clause 3, the Engineer-in- Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for such extension of time.

**Clause 5A For Maintenance work estimated cost up to Rs. 25Lakhs**

Time is the essence of the contract

*Refer DG/CON/307 dated 19.11.2019.*

**Clause 6**  
Computerized  
Measurement  
Book

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the contract.

All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in- Charge for the dated signatures by the Engineer-in- Charge and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized

Measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the Divisional Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Division Office for payment. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department.

The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Division Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his representative.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels. It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

No payment shall be made for work, estimated to cost Rs. two lac two Lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. two Lac the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delay on

#### **Clause 7**

Payment of intermediate certificate to be regarded as Advances

payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Authorized Engineer together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer-in-Charge, the period of ten working days will be extended to fifteen working days.

~~In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor provided the bill submitted by the contractor found to be in order a simple interest @5% (five percent) per annum shall be paid till the date of expiry of prescribed time limit which will be compounded on yearly basis.~~

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asstt. Engineer to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill(s) to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum shall be paid to the Government from the date of expiry of prescribed time limit which will be compounded on yearly basis.

Payments in  
composite  
Contracts

In case of composite tenders, running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor.

**Clause 7A**

No Running Account Bill/Final Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

**Clause 8**

*Completion  
Certificate and  
Completion  
Plans*

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects

(a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

**Clause 8 A**

Completion Plans to be submitted by the Contractor

The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services within thirty days of the completion of the work, provided that the service plans having been issued for execution by the Engineer-in-Charge, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans

In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum of 0.1 % (zero point one percent) of accepted Tendered Value or limit prescribed in Schedule F whichever is more as may be fixed by the authority as mentioned in Schedule F and in this respect the decision of the that authority shall be final and binding on the contractor.

**Clause 9**

Payment of Final Bill

The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified here in under, the period being reckoned from the date of receipt of the bill by the Engineer-in- Charge or his authorized Asstt. Engineer, complete with account of materials issued by the Department and dismantled materials.

- a) If the Tendered value of work is up to 1 Crore : 2months
- b) If the Tendered value of work is more than Rs 1 Crore and upto Rs. 10 Crore : 3months
- c) If the Tendered value of work exceeds Rs. 10 Crore : 6months

~~If the final bill is submitted by the contractor within the period specified above and payment of final bills is made by the deptt. after prescribed time limit a simple interest @ 5 % per annum shall be paid to the contractor from the date of expiry of the period specified above. Interest will be compounded on yearly basis provided the final bill submitted by the contractor is found to be in order.~~

**Clause 9 A**

Payment of Contractor's Bills to Banks

Payments due to the contractor may, if so desired by him, be made to his bank, registered financial, co-operative or thrift societies or recognized financial institutions instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge (1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, co- operative or thrift societies or recognized financial institutions to receive payments and (2) his own acceptance of the correctness of the amount made out as being due to him by Government or his signature on the bill or other claim preferred against Government before settlement by the Engineer-in- Charge of the account or claim by payment to the bank, registered financial, co-operative or thrift societies or recognized financial institutions. While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, cooperative or thrift societies or recognized financial institutions.

Nothing herein contained shall operate to create in favour of the bank; registered financial, co- operative or thrift societies or recognized financial institutions any rights or equities vis-a- vis the Governor of ArunachalPradesh.

**Clause 10 A**

Materials to be provided by the Contractor

The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Government.

The contractor shall, at his own expense and without delay; supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in- Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and

shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer -in- Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.

The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.

The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule F.

**Clause 10 B**

Secured Advance on Materials

~~(i) The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials or an amount not exceeding 75% of the material element cost in the tendered rate of the finished item of the work, whichever is lower, which are in the opinion of the Engineer-in-Charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/deducted from the next payment made under any of the clause or clauses of this contract.~~

~~Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer in Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.~~

Mobilization advance

~~(ii) Mobilization advance not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within one month of the order to commence the work. Such advance shall be in two or more installments to be determined by the Engineer-in-Charge at his sole discretion. The first installment of such advance shall be released by the Engineer-in-charge to the contractor on a request made by the contractor to the Engineer-in-Charge in this behalf. The second and subsequent installments shall be released by the Engineer-in-Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier installment to the entire satisfaction of the Engineer-in-Charge.~~

~~Before any installment of advance is released, the contractor shall execute a Bank Guarantee Bonds not more than 6 in number from Scheduled Bank for the amount equal to 110% of the amount of advance and valid for the period till recovery of advance. This (Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and till the period of complete recovery.~~

Interest & Recovery

~~(iii) The mobilization advance in (ii) above bear simple interest at the rate of 10 percent per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced shall be made by the deduction from the contractors bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment.~~

~~(iv) If the circumstances are considered reasonable by the Engineer-in-Charge, the period mentioned in~~

(ii) and (iii) for request by the contractor in writing for grant of mobilization advance may be extended at the discretion of the Engineer-in-Charge.

### Clause 10 C

Payment on Account of Increase in Prices/Wages due to Statutory Order(s)

If after submission of tender, if the price of any material incorporate in the work (excluding the material covered under clause 10 CA and/ or wages of labour increases as a direct result of the coming into force of any fresh law or statutory rule or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, then the amount of the contract shall accordingly be varied.

If after submission of the tender, the price of any material incorporated in the works (excluding the materials covered under Clause 10CA and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any changes of rate in sales tax/VAT, Central/State Excise/Custom Duty), Government shall in respect of materials incorporated in the works (excluding the materials covered under Clause 10CA and/or labour engaged on the execution of the work after the date of coming into force of such law statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any for the work and the prices of materials and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2.

Engineer-in-Charge shall call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages.

The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/or wages of labour, give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.

For this purpose, the labour component of 85% of the value of the work executed during period under consideration shall not exceed the percentage as specified in Schedule F, and the increase/decrease in labour shall be considered on the minimum daily wages in rupees of any unskilled Mazdoor, fixed under any law statutory rule and order. The cost of work for which escalation is applicable (W) is same as cost of work done worked out as indicated in sub-para (ii) of clause 10 CC except the amount of full assessed value of secured Advance.

### Clause 10CA

Payment due to variation in prices of materials after receipt oftender

If after submission of the tender, the price of materials specified in Schedule F increases/ decreases beyond the base price(s) as indicated in Schedule F for the work, then the amount of the contract shall accordingly be varied and provided further that any such variations shall be effected for stipulated period of Contract including the justified period extended under the provisions of Clause 5 of the Contract without any action under Clause 2.

However for work done/during the justified period extended as above, it will be limited to indices prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/tendered cost). If updated stipulated date of completion as calculated on pro-rata basis does not cover full calendar month then indices will be considered or restricted to previous month.

The increase/decrease in prices of cement, steel reinforcement, structural steel and POL shall be determined by the Price indices issued by the Director General, CPWD. For other items provided in the Schedule 'F', this shall be determined by the All India Wholesale Price Indices of materials as published by Economic Advisor to Government of India, Ministry of Commerce and Industry. Base price for cement, steel reinforcement, structural steel and POL shall be as issued under the authority of Director General CPWD applicable for Delhi including Noida, Gurgaon, Faridabad & Ghaziabad and for other places as issued under the authority of Zonal Chief Engineer, CPWD and base price of other materials issued by concerned Zonal Chief Engineer and as indicated in Schedule 'F'. In case, price index of a particular material is not issued by Ministry of Commerce and Industry, then the price index of nearest similar material as indicated in Schedule 'F' shall be followed.

The amount of the contract shall accordingly be varied for all such materials and will be worked out as

per the formula given below for individual material:-

Adjustment for component of individual material

$$V = P \times Q \times X (CI - CI_0) / CI_0 \quad \text{DELETED}$$

where,

V = Variation in material cost i.e. increase or decrease in the amount of rupees to be paid or recovered.

P = Base Price of material as issued under authority of DG, CPWD or concerned Zonal Chief Engineer and as indicated in Schedule "F". For Projects and Original Works

Q = Quantity of material brought at site for bonafide use in the works since previous bill excluding any such quantity consumed in the deviated quantity of items beyond deviation limit and extra /substituted item, paid/to be paid at rates derived on the basis of market rate under clause 12.2.

CI<sub>0</sub> = Price index for cement, steel reinforcement bars structural steel and POL as issued by the DG, CPWD and corresponding to the time of base price of respective material indicated in Schedule 'F'. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and corresponding to the time of base price of respective material indicated in Schedule 'F'.

CI = Price index for cement, steel reinforcement bars, structural steel and POL as issued under the authority of DG, CPWD for period under consideration. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material for period under consideration as published by Economic Advisor to Government of India, Ministry of Industry and Commerce.

Note: (i) In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/ tendered cost) shall be considered. Provided always that provisions of the preceding Clause 10 C shall not be applicable in respect of Materials covered in this Clause. If updated stipulated date of completion as calculated on pro- rata basis does not cover full calendar month then indices will be considered or restricted to previous month.

(ii) If during progress of work or at the time of completion of work, it is noticed that any material brought at site is in excess of requirement, then amount of escalation if paid earlier on such excess quantity of material shall be recovered on the basis of cost indices as applied at the time of payment of escalation or as prevailing at the time of effecting recovery, whichever is higher.

(iii) Cement mentioned wherever in this clause includes Cement component used in RMC brought at site from outside approved RMC plants, if any.

(iv) The date wise record of ready mix concrete shall be kept in a register and the cement consumption for the same shall be calculated accordingly.

(v) If built-up steel items are brought at site from workshop, then the variation shall be paid for the structural steel up to the period when the built up item/finished product is brought at site.

### Clause 10 CC

Payment due to Increase / Decrease in Prices/ages (excluding materials covered under clause 10 CA) after Receipt of Tender for Works

If the prices of materials (not being materials supplied or services rendered at fixed prices by the department in accordance with clause 10 & 34 thereof) and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2. No such compensation shall be payable for a work for which the stipulated period of completion is equal to or less than the time as specified in Schedule F. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions:-

- (i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any.
- (ii) The cost of work on which escalation will be payable shall be reckoned as below:
  - (a) Gross value of work done up to this quarter :(A)
  - (b) Gross value of work done up to the last quarter :(B)
  - (c) Gross value of work done since previous quarter (A-B):(C)
  - (d) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) fresh paid in this quarter :(D)
  - (e) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) recovered in this quarter :(E)

(f) Full assessed value of Secured Advance for which escalation Payable in this quarter (D-E):(F)

(g) Advance payment made during this quarter (G)

(h) Advance payment recovered during this quarter (H)

(i) Advance payment for which escalation is payable in this Quarter (G-H):(I)

(j) Extra items/deviated quantities of items paid as per Clause 12 Based on prevailing market rates during this quarter:(J)

Then,  $M = C+F+I-J$

$N = 0.85 M$

Cost of work for which escalation is applicable:

$W = N$

Components for materials (except cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender papers included in Schedule 'F'. The decision of the Engineer-in-Charge in working out such percentage shall be binding on the contractors.

(iii) The compensation for escalation for other materials (excluding cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) shall be worked as per the formula given below:-

Adjustment for civil component (except cement, structural steel, reinforcement bars, POL and other materials covered under clause 10CA) / electrical component of construction 'Materials'

$V_m = W \times X_m / 100 \times (MI - M_{Io}) / M_{Io}$

$V_m$  = Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

$W$  = Cost of Work done worked out as indicated in sub-para (ii) of Clause 10CC.

$X_m$  = Component of 'materials' (except cement, structural steel, reinforcement bars POL and other materials covered under clause 10CA) expressed as percent of the total value of work.

$MI$  = All India Wholesale Price Index for civil component/electrical component\* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/ Group Items for the period under consideration as published by Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applying weightages to the Individual Commodities/Group Items. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.) If updated stipulated date of completion as calculated on prorata basis does not cover full calendar month then indices will be considered or restricted to previous month.

$M_{Io}$  = All India Wholesale Price Index for civil component/electrical component\* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/Group Items valid on the last stipulated date of receipt of tender including extension, if any, as published by the Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applying weightages to the Individual Commodities/Group items.

\*Note: relevant component only will be applicable.

(iv) The following principles shall be followed while working out the indices mentioned in para (iv) above.

(a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The dates of preparation of bills as finally entered in the Measurement Book by the Assistant Engineer/ date of submission of bill finally by the contractor to the department in case of computerized measurement books shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which tender was accepted) and thereafter at three months' interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.

(b) The index (MI/FI etc.) relevant to any quarter/period for which such compensation is paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to date of completion after the quarter covered by the last such installment of payment, is less than three months, the index MI and FI shall be the average of the indices for the months falling within that period.

(v) The compensation for escalation for labour shall be worked out as per the formula given below:-

$$VL = W \times Y / 100 \times (LI - LI_0) / LI_0$$

VL : Variation in labour cost i.e. amount of increase or decrease in rupees to be paid or recovered.

W : Value of work done, worked out as indicated in sub-para (ii) above.

Y : Component of labour expressed as a percentage of the total value of the work.

LI : Minimum wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter previous to the one under consideration. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the minimum wage prevailing on the last date of quarter previous to the quarter pertaining to updated stipulated date of Completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.) If updated stipulated date of completion as calculated on pro- rata basis does not cover full calendar month then indices will be considered or restricted to previous month.

LI0 : Minimum daily wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as on the last stipulated date of receipt of tender including extension, if any.

(vi) The following principles will be followed while working out the compensation as per sub-para (vi) above.

(a) The minimum wage of an unskilled Mazdoor mentioned in sub- para (vi) above shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning.

(b) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters;

(c) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled Mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component.

(vii) In the event the price of materials and/or wages of labour required for execution of the work decrease/s, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein before stated under this Clause 10CC shall mutatis mutandis apply, provided that:

(a) no such adjustment for the decrease in the price of materials and/or wages of labour aforementioned would be made in case of contracts in which the stipulated period of completion of the work is equal to or less than the ID as specified in Schedule 'F'.

(b) the Engineer-in-Charge shall otherwise be entitled to lay down the procedure by which the provision of this sub-clause shall be implemented from time to time and the decision of the Engineer-in-Charge in this behalf shall be final and binding on the contractor.

(viii) Provided always that:-

(a) Where provisions of clause 10CC are applicable, provisions of clause 10C will not be applicable but provisions of clause 10CA will be applicable.

(b) Where provisions of clause 10CC are not applicable, provisions of clause 10C and 10CA will become applicable.

Note: Updated stipulated date of completion (period of completion plus extra time for extra work for compensation under clause 10C, 10CA and 10 CC

The factor of 1.25 taken into account for calculating the extra time under clause 12.1 for extra time shall not be considered while calculating the updated stipulated date of completion for this purpose in clause 10C, clause 10CA, and clause 10CC.

### Clause 10D

Dismantled  
Material Govt.

The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed off to the best advantage of Property Government according to the instructions in writing issued by the Engineer-in- Charge

<p><b>Clause 11</b></p> <p>Work to be executed in Accordance with Specifications, Drawings, Orders etc.</p>	<p>The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule 'F' or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.</p> <p>The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.</p>
<p><b>Clause 12</b></p> <p>Deviations/ Variations Extent and Pricing</p>	<p>The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.</p>
<p><b>12.1</b></p>	<p>The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows:</p> <p>(i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus</p> <p>(ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.</p>
<p><b>12.2</b> Deviation, Extra Items and Pricing</p>	<p>In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) submit market rate claim rates, supported by proper analysis which shall include invoices, vouchers etc. and Manufacturer's specification for the work failing which the rate approved later by the Engineer-in-charge shall be binding and the Engineer-in-Charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined, failing which it will be deemed to have been approved Deviation, Substituted Items</p> <p>In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.</p> <p>(a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p> <p>(b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p>
<p>Deviation, deviated Quantities, Pricing</p>	<p>In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the</p>

contractor, determine the rates on the basis of the market rates (as per invoice, vouchers from the manufacturers or suppliers submitted by the agency and duly verified by Engineer in Charge or his representative) and the contractor shall be paid in accordance with the rates so determined. **However such rates shall not exceed agreement rate(s); whichever is lowest to be considered.**

The prescribed time limit for finalizing rates for Extra Item(s), Substitute Item(s) and Deviated Quantities of contract items is within 45 days after submission of proposal by the contractor without observation of the Engineer-in-Charge.

**12.3** The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

**12.4** For the purpose of operation of Schedule "F", the following works shall be treated as works relating to foundation unless & otherwise defined in the contract:

- (i) For Buildings: All works up to 1.2 meters above ground level or up to floor 1 level whichever is lower.
- (ii) For abutments, piers and well staining: All works up to 1.2 m above the bed level.
- (iii) For retaining walls, wing walls, compound walls, chimneys, overhead reservoirs/ tanks and other elevated structures: All works up to 1.2 meters above the ground level.
- (iv) For reservoirs/tanks (other than overhead reservoirs/tanks) : All works up to 1.2 meters above the ground level.
- (v) For basement: All works up to 1.2 m above ground level or up to floor 1 level whichever is lower.
- (vi) For Roads, all items of excavation and filling including treatment of subbase.

**12.5** Any operation incidental to or necessarily has to be in contemplation of tenderer while quoting tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.

### **Clause 13**

Foreclosure of contract due to Abandonment or Reduction in Scope of Work

If at any time after acceptance of the tender or during the progress of work, the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure;

- (i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.
- (ii) Government shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however Government shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by Government, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.
- (iii) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.
- (iv) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage

books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government from the contractor under the terms of the contract.

In the event of action being taken under Clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up to the extended date of completion or stipulated date of completion if no extension has been granted plus minimum 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor the Engineer-in-Charge may return the previous Performance Guarantee.

#### **Clause 14**

Carrying out part work at risk & cost of contractor

If contractor:

- (i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 working days in this respect from the Engineer-in-Charge; or
- (ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 working days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or

    Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

- (iii) The Engineer-in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:

(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by Government because of action under this clause shall not exceed 10% of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor.

The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by Government in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues

recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

### Clause 15

Suspension of Work

(i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:

- (a) on account of any default on the part of the contractor or;
- (b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or
- (c) for safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer in- Charge.

(ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

- (a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;
- (b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in- Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in- Charge within fifteen days of the expiry of the period of 30days.

(iii) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (a) in sub para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer in- Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by Government or where it affects whole of the works, as an abandonment of the works by Government, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in- Charge. In the event of the contractor treating the suspension as an abandonment of the contract by Government, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 3 months.

### Clause 16

Action in case Work not done as per Specifications Q.A Plan applies

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in - charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the Department or any organization engaged by the Department for Quality

Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose.

Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or to the Chief Engineer in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in- Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in schedule 'F' may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

**\*QA (Quality Assurance) Plan Protocols under SOP No. 7/2 under CPWD Work Manual' 2019 shall be mandatorily applicable.**

#### Clause 17

Contractor Liable  
for Damages,  
defects during  
defect liability  
Period

If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer in- Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry **of twelve months** (six months in the case of work costing Rs. Ten lakhs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer- in-Charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later.

#### Clause 18

Contractor to  
Supply Tools &  
Plants etc.

The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores), machinery, tools & plants as specified in schedule F. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer- in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof.

**Clause 18 A**

Recovery of  
Compensation  
paid to Workmen

In every case in which by virtue of the provisions sub- section (1) of section 12 of the Workmen's Compensation Act, 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works , Government will recover from the contractor , the amount of the compensation so paid: and, , without prejudice to the rights of the Government under sub- section(2) of section 12 , of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. Government shall not be bound to contest any claim made against it under sub- section (1) of section 12, of the said Act, except on the written request of the contractor and upon his giving to Government full security for all costs for which Government might become liable in consequence of contesting such claim.

**Clause 18 B**

Ensuring  
Payment and  
Amenities to  
Workers if  
Contractor fails

In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, Government is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the C.P.W.D. Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by C.P.W.D. Contractors, Government will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the Government under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise Government shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the Government full security for all costs for which Government might become liable in contesting such claim.

**Clause 19**

Labour Laws to  
be complied by  
the Contractor

The contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work.

The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.

The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.

The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.

**CLAUSE 19A**

No labour below the age of fourteen years shall be employed on the work.

**CLAUSE 19 B**

Payment of wages:

Payment of  
Wages

- (i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
- (ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his subcontractors in connection with the said work, as if the labour had been immediately employed by him.
- (iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Central Public Works Department contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorized made, maintenance of wage books or wage slips publication of scale of wage and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and

Abolition) Central Rules, 1971, wherever applicable

- (iv) (a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.
- (b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days' continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.
- In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/ 43884-91, dated 31-12-1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.
- (v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.
- (vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the C.P.W.D. Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.
- (vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.
- (viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.
- (ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

**CLAUSE 19C** In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty as decided by the authority mentioned in Schedule F for each default and in addition, the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

**CLAUSE 19D** The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively: -

- (1) the number of labourers employed by him on the work,
- (2) their working hours,
- (3) the wages paid to them,
- (4) the accidents that occurred during the said period showing the circumstances under which they happened and the extent of damage and injury caused by them, and
- (5) the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them.

Failing which the contractor shall be liable to pay to Government, a sum as decided by the authority mentioned in Schedule F for each default or materially incorrect statement. The decision of the Divisional Officer shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor.

**CLAUSE 19E** In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the Central Public Works Department and its contractors.

**CLAUSE 19 F** Leave and pay during leave shall be regulated as follows (in accordance with Labour regulation act of Govt. of A.P. and Department of notification time to time):-

1. Leave:
  - (i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day,
  - (ii) in the case of miscarriage - up to 3 weeks from the date of miscarriage.
2. Pay:
  - (i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.
  - (ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.
3. Conditions for the grant of Maternity Leave:
 

No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.
4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in Appendix -I and II, and the same shall be kept at the place of work.

**Clause 19 G** In the event of the contractor(s) committing a default or breach of any of the provisions of the Central Public Works Department, Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum as decided by the authority mentioned in Schedule F for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to as decided by the authority mentioned in Schedule F per day for each day of default subject to a maximum of 5 percent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of the C.P.W.D. Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) Central Rules 1971, for the protection of health and sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodeled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).

**CLAUSE 19 H** The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.

- (i) (a) The minimum height of each hut at the eaves level shall be 2.10m (7 ft.) and the floor area to be provided will be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the laborer.
- (b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6' x 5') adjacent to the hut for each family.
- (c) The contractor(s) shall also construct temporary latrines and urinals for the use of the

labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.

- (d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.
- (ii) (a) All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutchra but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight.
- (b) The contractor(s) shall provide each hut with proper ventilation.
- (c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.
- (d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed.
- (iii) **Water Supply** - The contractor(s) shall provide adequate supply of water for the use of laborers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/ their own cost make arrangements for laying pipe lines for water supply to his/ their labour camp from the existing mains wherever available, and shall pay all fees and charges therefore.
- (iv) The site selected for the camp shall be high ground, removed from jungle.
- (v) **Disposal of Excreta** - The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality/authority. The contractor shall provide one sweeper for every eight seats in case of dry system.
- (vi) **Drainage** - The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.
- (vii) The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.
- (viii) **Sanitation** - The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.

#### **Clause 19I**

The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service center, to apprise the residents about the same.

**CLAUSE 19J** It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy up to 5% of tendered value of work may be imposed by the Superintending Engineer whose decision shall be final both with regard to the justification and quantum and be binding on the contractor.

However, the Superintending Engineer, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.

**Clause 19K** Employment of skilled/semi-skilled workers

The contractor shall, at all stages of work, deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified in schedule 'F' per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores. For work costing more than Rs. 10 Crores, and upto Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. For work costing more than Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. The cost of such training as stated above shall be borne by the Government. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained.

**CLAUSE 19L** Contribution of EPF and ESI

The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment of labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.

**Clause 20** Minimum Wages Act to be Complied With

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

**Clause 21** Work not to be sublet. Action in case of insolvency

The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the President of India shall have power to adopt the course specified in Clause 3 hereof in the interest of Government and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.

**Clause 22**

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

- Clause 23**  
Changes in firm's Constitution to be Intimated
- Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.
- Clause 24**  
Life Cycle Cost
- The contractor shall have obligation to rectify construction defects minimum up to 5 (five) years from the date of completion of work. The defects have to be rectified within a reasonable time not exceeding three months after issue of notice by Engineer-in-Charge.
- Clause 25**  
Settlement of Disputes & Arbitration
- Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:
- (i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or if the Engineer in Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed, such party shall promptly within 15 days of the arising of the disputes request the Chief Engineer/ CPM, or where there is no Chief Engineer/CPM, request the Additional Director General/Special Director General, who shall refer the disputes to Dispute Redressal Committee (DRC) within 15 days along with a list of disputes with amounts claimed if any in respect of each such dispute. The Dispute Redressal Committee (DRC) give its decision within a period of 60 days extendable by 30 days by consent of both the parties from the receipt of reference from CE/CPM/ADG/SDG. The constitution of Dispute Redressal Committee (DRC) shall be as indicated in Schedule 'F'. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc. The DRC will submit its decision to the concerned ADG/SDG for acceptance. ADG/ SDG in a time limit of 30 days from receipt of DRC decision will convey acceptance or otherwise on the said decision. If the Dispute Redressal Committee (DRC) fails to give its decision within the aforesaid period or the ADG/SDG fails to give his decision in the aforesaid time limit or any party is dissatisfied with the decision of Dispute Redressal Committee (DRC)/ ADG/ SDG then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC)/ ADG/SDG or on expiry of aforesaid the time limits available to DRC/ ADG/SDG, may give notice to the Chief Engineer/CPM, CPWD, in charge of the work or if there be no Chief Engineer/ CPM,, the Additional Director General /Special Director General concerned or if there be no Additional Director General/ Special Director General, the Director General, CPWD for appointment of arbitrator on prescribed proforma as per Appendix XVII under intimation to the other party. It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration. The CE/ADG/ SDG /DG shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer-in-charge to CE/ADG/ SDG /DG for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator. In the event of
- a. A party fails to appoint the second Arbitrator, or
  - b. The two appointed Arbitrators fail to appoint the Presiding Arbitrator, then the Director General, CPWD shall appoint the second or Presiding Arbitrator as the case maybe.
- (ii) Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where Tendered amount is Rs. 500 Crore or less. Where Tendered Value is more than Rs.500 Crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall be

applicable.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the decision of the ADG/ SDG on the finding / recommendation of DRC.

It is also a term of this contract that in case of sole arbitrator, the arbitrator and in case of tribunal any member of the Arbitration Tribunal shall be a **Graduate Engineer** with experience in handling public works engineering contracts at a level not lower than **Chief Engineer** (Joint Secretary level of Government of India) retired from Govt. Service or working in any other Govt. Department/ Ministry other than CPWD. This shall be treated as a mandatory qualification to be appointed as arbitrator.

Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.

Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority. The arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award.

It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid as per the Act. The place of arbitration shall be as mentioned in Schedule F. In case there is no mention of place of arbitration, the arbitral tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.

#### Clause 26

The contractor shall fully indemnify and keep indemnified the President of India against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of any such matters as aforesaid, the

contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the President of India if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in- Charge in this behalf.

#### Clause 27

Lump sum Provisions in Tender.

When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.

#### Clause 28

Action where no Specifications are Specified

In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per state/ District Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.

**Clause 29**

Withholding and  
lien in respect of  
sum due from  
Contractor

- (i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the Government shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Government shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the Government or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or Government will be kept withheld or retained as such by the Engineer-in-Charge or Government till the claim arising out of or under the contract is determined by the arbitrator (if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.

- (ii) Government shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the contractor, without any interest thereon whatsoever.

Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Superintending Engineer or Executive Engineer on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Superintending Engineer or the Executive Engineer.

Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the Government or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Government or such other person or persons in respect of payment of a sum of money arising out of or under

**Clause 29 A**

Lien in respect of  
claims in other  
Contracts

any other contract made by the contractor with the Engineer-in-Charge or the Government or with such other person or persons. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the Government will be kept withheld or retained

as such by the Engineer-in-Charge or the Government or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

The contractor shall not employ coal mining or controlled area labour falling under any category whatsoever on or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the contractor shall employ imported labour only i.e., deposit imported labour or labour imported by contractors from area, from which import is permitted.

**Clause 29 B**

Employment of  
coal mining or  
controlled area  
labour not  
Permissible

Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not

more than that ceiling price shall be paid to the labour by the contractor.

The contractor shall immediately remove any labourer who may be pointed out by the Engineer-in-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the contractor liable to pay to Government a sum calculated at the rate of Rs.10/- per day per labourer. The certificate of the Engineer-in-Charge about the number of coal mining or controlled area labourer and the number of days for which they worked shall be final and binding upon all parties to this contract.

It is declared and agreed between the parties that the aforesaid stipulation in this clause is one in which the public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872.

Explanation:- Controlled Area means the following areas:

Districts of Dhanbad, Hazaribagh, Jamtara - a Sub-Division under SanthalParganaCommissionary, Districts of Bankuara, Birbhum, Burdwan, District of Bilaspur.

Any other area which may be declared a Controlled Area by or with the approval of the Central Government.

The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.

**Clause 30**

Unfiltered water  
Supply

- (i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.
- (ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in- Charge, unsatisfactory.

The contractor shall be allowed to construct temporary wells in Government land for taking water for construction purposes only after he has got permission of the Engineer-in- Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

**Clause 30A**

Alternate water  
Arrangements

**Clause 31**

Hire of Plant &  
Machinery

The contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work.

**Clause 32**

Employment of  
Technical Staff  
and employees

Contractors Superintendence, Supervision, Technical Staff & Employees

- (i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. Even of the contractor (or partner(s) in case of firm/ company) is himself / herself an Engineers, it is necessary on the part of the contractor to Employ principal technical representative / technical representative (s) as per stipulation in Schedule 'F'

The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s) The principal technical representative and other

technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/ test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (nonrefundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every on-account bill final bill and shall produce evidence if at any time so required by the Engineer-in-Charge.

- (ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

### Clause 33

Levy/Taxes payable by Contractor

- (i) GST, Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect except as provided under Clause 38 The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.

If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Government of India and does not any time become payable by the contractor to the State Government, Local authorities in respect of any material used by the contractor in the works, then in such a case, it shall be lawful to the Government of India and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.

### Clause 34

Conditions for reimbursement of levy/taxes if levied after receipt of Tenders

- (i) All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease.

Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other

than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/levies/cess.

Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F.

- (ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.
- (iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

#### **Clause 35**

Termination of Contract on death of contractor

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-in-Charge on behalf of the President of India shall have the option of terminating the contract without levy of compensation to the contractor.

#### **Clause 36**

If relative working in CPWD then the contractor not allowed to tender

The contractor shall not be permitted to tender for works in the CPWD circle (Division in case of contractors of Horticulture/Nursery categories) responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the C.P.W.D. or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in CPWD for any breach of this condition.

NOTE: By the term "near relatives" is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.

#### **Clause 37**

No Gazetted Engineer to work as Contractor within one year of retirement

No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering department of the Government of India shall work as a contractor or employee of a contractor for a period of one year after his retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.

#### **Clause 38**

Theoretical conception of Material

- (i) After completion of the work and also at any intermediate stage in the event of Non reconciliation of materials issued theoretical quantity of materials used in the work shall be calculated on the basis and method given hereunder:-
  - (a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above-mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer-in-Charge.
  - (b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorized by Engineer-in-Charge, including authorized lap pages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter wise, section wise and category wise separately.
  - (c) Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such

determination & comparison being made diameter wise & category wise.

(d) For any other material as per actual requirements.

Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F' For non-scheduled items, the decision of the Superintending Engineer regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.

(ii) The said action under this clause is without prejudice to the right of the Government to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

**Clause 39**

Compensation during warlike situations

The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Divisional Officer upto Rs.2,00,000/-- and by the next higher officer concerned for a higher amount. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.

Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. (Air Raid precaution) Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work. In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Divisional Officer.

**Clause 40**

Apprentices Act provisions to be complied with

The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

**Clause 41**

Release of Security deposit after labour clearance

Release of Security Deposit of the work shall not be refunded till the contractor produces a clearance deposit after labour certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.

^^^^^^^^^^^^^^^^^^

Sd/-  
Executive Engineer  
PWD Doimukh Division

**INTEGRITY PACT**

To,

.....  
.....  
.....

Sub:NITNo .....for the work

Dear Sir,

It is here by declared that CPWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CPWD.

Yours faithfully

Executive Engineer

-----□-----□-----

**INTEGRITY PACT**

To,

Executive Engineer,

.....  
.....

Sub: Submission of Tender for the

Work of

Dear Sir,

I/We acknowledge that CPWD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by CPWD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CPWD shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid is accordance with terms and conditions of the tender/ bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

**To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of CPWD.**

## INTEGRITY AGREEMENT

This Integrity Agreement is made at..... on this ..... day of..... 20 .....

### BETWEEN

President of India represented through Executive Engineer, (Name of Division) CPWD, (Hereinafter referred as the (Address of Division) **Principal/Owner**), which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

### AND

(Name and Address of the Individual/firm/Company)  
Through..... (Hereinafter referred to as the (Details of duly authorized signatory) **Bidder/Contractor**) and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

#### **Preamble**

WHEREAS the Principal / Owner has floated the Tender (NIT No ..... ) (Hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for (Name of work) hereinafter referred to as the "Contract".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

#### **Article 1: Commitment of the Principal/Owner**

- (1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

## Article 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
  - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### **Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
2. Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

### **Article 4: Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.
3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

### **Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors**

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
2. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/ Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

**Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

**Article 7- Other Provisions**

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

**Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS, WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of  
Principal/Owner) (For and on  
behalf of Bidder/Contractor)

WITNESSES:

1 .....

(signature, name and address)

2 .....

(signature, name and address)

Place:

Dated:

Sd/-  
Executive Engineer  
PWD Doimukh Division

### C.P.W.D. SAFETY CODE

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to 1 ( $\frac{1}{4}$  horizontal and 1 vertical.)
2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.(3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder up to and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least  $\frac{1}{4}$ " for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.
6. (a) Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
  - (b) Safety Measures for digging bore holes: -
    - (i). If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
    - (ii). During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work;
    - (iii). Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m all-round the point of drilling to avoid entry of people;
    - (iv). After drilling the bore well, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;
    - (v). After the completion of the bore well, the contractor should cap the bore well properly

by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump;

- (vi). After the bore well is drilled the entire site should be brought to the ground level.
7. Demolition- Before any demolition work is commenced and also during the progress of the work,
- (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
  - (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
  - (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractors should take adequate steps to ensure proper use of equipment by those concerned: - The following safety equipment shall invariably be provided.
- (i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
  - (ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
  - (iii) Those engaged in welding works shall be provided with welder's protective eye shields.
  - (iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - (v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measures are adhered to: -
    - a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.
    - b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
    - c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
    - d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.
    - e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
    - f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
    - g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
    - h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
    - i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge shall decide the time up to which a worker may be allowed to work continuously inside the manhole.
    - k) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.

- l) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapor proof and of totally enclosed type. Non-sparking gas engines also could be used but they should be placed at least 2 meters away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
  - m) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing working in the manhole.
  - n) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves non-sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
  - o) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
  - p) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
  - q) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
- (vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken: -
- a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
  - b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
  - c) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
- (vi) Workmen executing work on scaffolds or other structures above specified height shall be provided with full body harness and fall arresters.
9. An additional clause (viii)(i) of Central Public Works Department Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
- (i) White lead, sulphate of lead or product containing this pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
  - (ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
  - (iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
  - (iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
  - (v) Overall shall be worn by working painters during the whole of working period.
  - (vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
  - (vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of C.P.W.D PWD (DA).

- (viii) C.P.W.D./PWD (DA) may require, when necessary medical examination of workers.
- (ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
9. When the work is done near any place where there is risk of drowning, all necessary equipment's should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
10. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions: -
- 10.1(a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
- (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- 10.2 Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
- 10.3 In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- 10.4 In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in- Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.
11. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
12. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
13. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
14. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
15. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

Sd/- Executive Engineer  
PWD Doimukh Division

## **Model Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by Central P.W.D. or its Contractors**

### **1. APPLICATION**

These rules shall apply to all buildings and construction works in charge of Central Public Works Department/ PWD (DA) in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

### **2. DEFINITION**

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

### **3. FIRST-AID FACILITIES**

- (i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- (ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment: -
  - (a) For work places in which the number of contract labour employed does not exceed 50-  
Each first-aid box shall contain the following equipment:-
    1. 6 small sterilized dressings.
    2. 3 medium size sterilized dressings.
    3. 3 large size sterilized dressings.
    4. 3 large sterilized burn dressings.
    5. 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
    6. 1 (30 ml.) bottle containing Sal volatile having the dose and mode of administration indicated on the label.
    7. 1 snakebite lancet.
    8. 1 (30 gms.) bottle of potassium permanganate crystals.
    9. 1 pair scissors.
    10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, Government of India.
    11. 1 bottle containing 100 tablets (each of 5 gms.) of aspirin.
    12. Ointment for burns.
    13. A bottle of suitable surgical antiseptic solution.
  - (b) For work places in which the number of contract labour exceed 50.  
Each first-aid box shall contain the following equipment.
    1. 12 small sterilized dressings.
    2. 6 medium size sterilized dressings.
    3. 6 large size sterilized dressings.
    4. 6 large size sterilized burn dressings.
    5. 6 (15 gms.) packets sterilized cottonwood.
    6. 1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.
    7. 1 (60 ml.) bottle containing Sal volatile having the dose and mode of administration indicated on the label.
    8. 1 roll of adhesive plaster.
    9. 1 snake bite lancet.
    10. 1 (30 gms.) bottle of potassium permanganate crystals.
    11. 1 pair scissors.
    12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India.

- 13. A bottle containing 100 tablets (each of 5 gms.) of aspirin.
- 14. Ointment for burns.
- 15. A bottle of suitable surgical antiseptic solution.

- (iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- (iv) Nothing except the prescribed contents shall be kept in the First-aid box.
- (v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the workplace.
- (vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.
- (vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
- (viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

#### **4. DRINKING WATER**

- (i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- (ii) Where drinking water is obtained from an Intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- (iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.
- (iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

#### **5. WASHING FACILITIES**

- (i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- (ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- (iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

#### **6. LATRINES AND URINALS**

- (i) Latrines shall be provided in every work place on the following scale namely: -
  - a) Where female is employed, there shall be at least one latrine for every 25 females.
  - b) Where males are employed, there shall be at least one latrine for every 25 males.

Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be up to the first 100, and one for every 50 thereafter.
- (ii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- (iii) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- (iv) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.  
(b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- (v) There shall be at least one urinal for male workers up to 50 and one for female workers up to fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females up to the first 500 and one for every 100 or part thereafter.
- (vi) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.  
(b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.

- (vii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- (viii) Disposal of excreta: - Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15-cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- (ix) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

#### **7. PROVISION OF SHELTER DURING REST**

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 meters (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head.

Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

#### **8. CRECHES**

- (i) At every work place, at which 20 or more women workers are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19H (ii) a,b&c.
- (ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- (iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bedroom.
- (iv) The contractor shall provide one ayah to look after the children in the crèche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- (v) The use of the rooms earmarked as crèches shall be restricted to children, their attendants and mothers of the children.

#### **9. CANTEENS**

- (i) In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- (ii) The canteen shall be maintained by the contractor in an efficient manner.
- (iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- (iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- (v) The floor shall be made of smooth and impervious materials and inside walls shall be lime-washed or colour washed at least once in each year.

Provided that the inside walls of the kitchen shall be lime-washed every four months.

- (vi) The premises of the canteen shall be maintained in a clean and sanitary condition.
- (vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause nuisance.
- (viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- (ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- (x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square meter (10 sft) per diner to be accommodated as prescribed in sub-Rule 9.
- (xi) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.  
(b) Washing places for women shall be separate and screened to secure privacy.

- (xii) Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule9.
- (xiii) (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipment necessary for the efficient running of the canteen.  
2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.
- (b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.  
2. A service counter, if provided, shall have top of smooth and impervious material.  
3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.
- (xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- (xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.
- (xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely: -
- a) The rent of land and building.
  - b) The depreciation and maintenance charges for the building and equipment provided for the canteen.
  - c) The cost of purchase, repairs and replacement of equipment including furniture, crockery, cutlery and utensils.
  - d) The water charges and other charges incurred for lighting and ventilation.
  - e) The interest and amounts spent on the provision and maintenance of equipment provided for the canteen.
- (xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

#### **10. ANTI-MALARIALPRECAUTIONS**

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

11. The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.

#### **12. AMENDMENTS**

Government may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

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Sd/- Executive Engineer  
Doimukh Division

## **C.P.W.D./PWD (DA) Contractors Labour Regulations.**

### 1. SHORT TITLE

These regulations may be called the

### 2. DEFINITIONS

i. Workman means any person employed by C.P.W.D./PWD (DA) or its contractor directly or indirectly through a subcontractor with or without the knowledge of the Central Public Works Department/PWD (DA) to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person: -

- a) Who is employed mainly in a managerial or administrative capacity: or
- b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or
- c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

No person below the age of 14 years shall be employed to act as a workman.

ii. Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.

iii. Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.

iv. Wages shall have the same meaning as defined in the Payment of Wages Act.

### 3.

- i. Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- ii. When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.
- iii. a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.  
b) Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.  
c) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

### 4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix 'III'.

### 5. PAYMENT OF WAGES

- i. The contractor shall fix wage periods in respect of which wages shall be payable.
- ii. No wage period shall exceed one month.
- iii. The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- iv. Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.

- v. All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- vi. Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- vii. All wages shall be paid through Bank or ECS or online transfer.
- viii. Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- ix. A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.
- x. It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.
- xi. The contractor shall obtain from the Junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form: -
- xii. "Certified that the amount shown in column No has been paid to the workman concerned through bank account of labour on at....."

#### FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

- i. The wages of a worker shall be paid to him without any deduction of any kind except the following: -
- ii. Fines
- iii. Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
- iv. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
- v. Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
- vi. Any other deduction which the Central Government may from time to time allow.
- vii. No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.
- viii. Note :- An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-X
- ix. No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- x. The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- xi. No fine imposed on any worker shall be recovered from him by installment, or after the expiry of sixty days from the date on which it was imposed.
- xii. Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

#### LABOUR RECORDS

- i. The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (Appendix IV)
- ii. The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (Appendix V).
- iii. The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (Appendix VI).
- iv. Register of accident - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
- v. Full particulars of the labourers who met with accident.
  - a) Rate of Wages.
  - b) Sex
  - c) Age

- d) Nature of accident and cause of accident.
  - e) Time and date of accident.
  - f) Date and time when admitted in Hospital,
  - g) Date of discharge from the Hospital.
  - h) Period of treatment and result of treatment.
  - i) Percentage of loss of earning capacity and disability as assessed by Medical Officer.
  - j) Claim required to be paid under Workmen's Compensation Act.
  - k) Date of payment of compensation.
  - l) Amount paid with details of the person to whom the same was paid.
  - m) Authority by whom the compensation was assessed.
  - n) Remarks
- vi. The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971(Appendix-XI)
  - vii. The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed(Appendix-X)
  - viii. The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (Appendix-XII)
  - ix. The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIII)
  - x. The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIV)
6. ATTENDANCE CARD-CUM-WAGESLIP
- i. The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen format(Appendix-VII)
  - ii. The card shall be valid for each wage period.
  - iii. The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
  - iv. The card shall remain in possession of the worker during the wage period under reference.
  - v. The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
  - vi. The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.
7. EMPLOYMENT CARD

The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker(Appendix-VIII).

8. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service certificate in Form XV of the CL (R&A) Central Rules 1971 (Appendix-IX)

9. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorized by the Ministry of Urban Development in this behalf.

10. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorized by Central Government on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

11. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorized as aforesaid shall submit a report of result of his investigation or enquiry to the Executive Engineer concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Executive Engineer after the Superintending Engineer has given his decision on such appeal.

- i. The Executive Engineer shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the Superintending Engineer as the case maybe.

## 12. APPEAL AGAINST THE DECISION OF LABOUROFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorized may appeal against such decision to the Superintending Engineer concerned within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Executive Engineer concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

## 13. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- i. A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:-
  - a) An officer of a registered trade union of which he is a member.
  - b) An officer of a federation of trade unions to which the trade union referred to in clause (a) is affiliated.
  - c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- ii. An employer shall be entitled to be represented in any investigation or enquiry under these regulations by: -
  - a) An officer of an association of employers of which he is a member.
  - b) An officer of a federation of associations of employers to which association referred to in clause (a) is affiliated.
  - c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- iii. No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

## 14. INSPECTION OF BOOKS AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorized by the Central Government on his behalf.

## 15. SUBMISSIONS OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

## 16. AMENDMENTS

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the Superintending Engineer concerned shall be final.

^^

Executive Engineer  
PWD Doimukh Division

**Appendix 'I'**

**REGISTER OF MATERNITY BENEFITS**

(Clause 19 F)

Name and address of the contractor: .....

Name and location of the work : .....

Name of the employee	Father's /Husband's name	Nature of employment	Period of actual employment	Date on which notice of confinement given
1	2	3	4	5

Date on which maternity leave commenced and ended

Date of delivery/miscarriage	In case of delivery		In case of miscarriage	
	commenced	Ended	commenced	Ended
6	7	8	9	10

Leave pay paid to the employee

In case of delivery		In case of miscarriage		Remarks
Rate of leave pay	Amount paid	Rate of leave pay	Amount paid	
11	12	13	14	15

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**Appendix 'II'**

**SPECIMEN FORM OF THE REGISTER, REGARDING MATERNITY BENEFIT  
ADMISSIBLE TO THE CONTRACTOR'S LABOUR IN CENTRAL PUBLIC WORKS  
DEPARTMENT WORKS**

Name and address of the contractor: .....

Name and location of the work: .....

- 1 Name of the woman and her husband's name :
- 2 Designation :
- 3 Date of appointment :
- 4 Date with months and years in which she is employed :
- 5 Date of discharge/dismissal, if any :
- 6 Date of production of certificates in respect of pregnancy :
- 7 Date on which the woman inform about the expected delivery :
- 8 Date of delivery/miscarriage/death :
- 9 Date of production of certificate in respect of delivery/miscarriage :
- 10 Date with the amount of maternity/death benefit paid in advance of expected delivery date :
- 11 Date with amount of subsequent payment of maternity benefit. :
- 12 Name of the person nominated by the woman to receive the payment of the maternity benefit after her death :
- 13 If the woman dies, the date of her death, the name of the person to whom maternity benefit amount was paid, the month thereof and the date of payment. :
- 14 Signature of the contractor authenticating entries in the register. :
- 15 Remarks column for the use of Inspecting Officer. :

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**Appendix 'III'****Labour Board**

Name of work :  
 Name of Contractor :  
 Address of Contractor :  
 Name and address of P.W.D. Division :  
 Name of P.W.D. Labour Officer :  
 Address of P.W.D. Labour Officer :  
 Name of Labour Enforcement Officer :

Sl.No.	Category	Minimum wage fixed	Actual wage paid	Number present	Remarks

Weekly Holiday :  
 Wage Period :  
 Date of Payment of wages :  
 Working Hours :  
 Rest Interval :

-----□-----□-----

**Appendix 'IV'**

Form - XIII (See Rule 75)

**Register of Workmen Employed by Contractor**

Name and address of contractor :  
 Name and address of establishment under which contract is carried on :  
 Name and location of work :  
 Name and address of Principal Employer :

Sl. No.	Name and Surname of workman	Age and Sex	Father's / Husband's name	Nature of employment / designation	Permanent home address of the workman (Village and Tehsil)	Location addresses	Date of commencement of employment	Signature or thumb impression of the workman	Date of termination of employment	Reasons for termination	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

-----□-----□-----

**Appendix ‘V’**

Form - XVI [See Rule 78 (2) (a)]

**Muster Roll**

Name and address of contractor : .....  
 Name and address of establishment under which contract is carried on : .....  
 Name and location of work : .....  
 Name and address of Principal Employer : .....  
 For the month of fortnight.....

Sl. No	Name of Workman	Sex	Father's/ Husband's name	Dates																	Remarks				
				1	2	3	10	11	12	20	21	22	23	24	25	28	29	30	31						
1	2	3	4	5																	6				

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**Appendix 'VI'**

Form -XVII[See Rule 78 (2) (a)]

**Register of Wages**

Name and address of contractor : .....  
 Name and address of establishment under which contract is carried on : .....  
 Name and location of work : .....  
 Name and address of Principal Employer : .....  
 Wages period:  
 Monthly/Fortnightly

Sl. No	Name of Workman	Serial No. in the register of workman	Designation nature of work done	No. of days worked	Units of work done	Daily rate of wages/ piece rate	Amount of wages earned					Deductions if any (indicate nature)	Net amount paid	Signature or thumb impression of the workman	Initial of contractor or his representative
							Basic wages	Dearness allowances	Over time	Other cash payments (indicate nature)	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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**Appendix 'VII'**

Wage Card No.: .....

**Wage Card**

Name and address of contractor : ..... Date of Issue : .....  
 Name and location of the work : ..... Designation : .....  
 Name of workman : ..... Month/Fortnight : .....  
 Rate of Wages : .....

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Morning																															
Evening																															
Initial																															

Received from..... the sum of Rs..... On account of my wages

The Wages Card is valid for one month from the date of issue

Signature

-----□-----□-----

**Appendix 'VII'**  
(Reverse)

Form -XIX[See Rule 78 (2) (b)]  
**Wages Slip**

Name and address of contractor : .....  
 Name and Father's /Husband name of workman : .....  
 Name and location of the work : .....  
**For the Week/Fortnight/Monthending**  
 1. No. of days worked : .....  
 2. No. of Units worked in case of piece rateworkers : .....  
 3. Rate of daily wages/piece rateworkers : .....  
 4. Amount of overtime wages : .....  
 5. Gross wages payable : .....  
 6. Deduction, if any : .....  
 7. Net amount of wages paid : .....

Initials of the Contactor or his representative

-----□-----□-----

**Appendix 'VIII'**

Form-XIV[See Rule76]  
**Employment Card**

Name and addressofcontractor : .....

Name and address of establishment is under which contract is carried on : .....

Name of work and locationofwork : .....

Name and address ofPrincipal Employer : .....

1. Name of the workman : .....

2. SI. No. in the register ofworkman employed : .....

3. Natureofemployment/designation : .....

4. Wage rate (with particulars of unit in case ofpiecework) : .....

5. Wageperiod : .....

6. Tenureofemployment : .....

7. Remarks : .....

Signature of contractor

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**Appendix 'IX'**

Form – XV(See Rule77)  
**ServiceCertificate**

Name and addressofcontractor : .....

Nature and locationofwork : .....

Name and addressofworkman : .....

Age or dateofbirth : .....

Identificationmarks : .....

Father's/Husband'sname : .....

Name and address of establishment in under which contract is carried on : .....

Name and address ofPrincipal Employer : .....

Sl. No.	Total Period for which employed		Nature of Work Done	Rate of wages (with particulars of unit in case of piece work)	Remarks
	From	To			
1	2	3	4	5	6

Signature

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**Appendix 'X'**

**List of Acts and Omissions for which Fines can be Imposed**

In accordance with Rule 7(v) of the PWD Contractor's Labour Regulations to be displayed prominently at the site of work both in English and local Language.

1. Willful insubordination or disobedience, whether alone or in combination with other.
2. Theft fraud or dishonesty in connection with the contractors beside a business or property of PWD.
3. Taking or giving bribes or any illegal gratifications.
4. Habitual late attendance.
5. Drunkenness lighting, riotous or disorderly or indifferent behavior.
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked.
8. Habitual indiscipline.
9. Causing damage to work in the progress or to property of the PWD or of the contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving of false information regarding name, age, father's name, etc.
13. Habitual loss of wage cards supplied by the employers.
14. Unauthorized use of employer's property of manufacturing or making of unauthorized particles at the workplace.
15. Bad workmanship in construction and maintenance by skilled workers which is not approved by the Department and for which the contractors are compelled to undertake rectifications.
16. Making false complaints and/or misleading statements.
17. Engaging on trade within the premises of the establishments.
18. Any unauthorized divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorized by the employer.
20. Holding meeting inside the premises without previous sanction of the employers.
21. Threatening or intimidating any workman or employer during the working hours within the premises.

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**Appendix 'XI'**

Form- XII(See Rule 78(2) d)  
**Register of Fines**

Name and address of contractor : .....  
 Name and address of establishment under which contract is carried on : .....  
 Nature and location of the work : .....  
 Name and address of Principal Employer : .....

S l · N o ·	Name of Workman	Father's /Husband 'sname	Designation/ nature of employment	Act / Omission for which fine imposed	Date of Offence	Whether workman showed cause against fine	Name of person in whose presence employee's explanation was heard	Wage period and wages payable	Amount of fine imposed	Date on which fine realised	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

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**Appendix 'XII'**

Form –XX(See Rule 78(2)(d))

**Register of Deduction for Damage or Loss**

Name and address of contractor.....  
 Name and address of establishment in under which contract is carried on.....  
 Nature and location of work.....  
 Name and address of Principal Employer.....

Sl. No.	Name of Workman	Father's/ Husband's name	Designation / nature of employment	Particulars of damage or loss	Date of damage or loss	Whether workman showed cause against deduction	Name of person in whose presence employee's explanation was heard	Amount of deduction Imposed	No of installments	Date of recovery		Remarks
										First installment	Last installment	
1	2	3	4	5	6	7	8	9	10	11	12	13

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**Appendix 'XIII'**

Form – XXII (See Rule 78(2)(d))

**Register of Advances**

Name and address of contractor : .....  
 Name and address of establishment in under which contract is carried on : .....  
 Nature and location of work : .....  
 Name and address of Principal Employer : .....

Sl. No.	Name of Workman	Father's/ Husband's name	Designation / nature of employment	wage Period and wages payable	Date and amount of Advance given	Purpose for which Advance made	Number of installments by which advance to be repaid	Date and amount of each installment repaid	Date on which last installment was repaid	Remarks
1	2	3	4	5	6	7	8	9	10	11

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**Appendix 'XIV'**

Form – XXIII (See Rule 78(2) (e))

**Register of Overtime**

Name and address of contractor : .....

Name and address of establishment in under which contract is carried on : .....

Nature and location of work : .....

Name and address of Principal Employer : .....

Sl. No.	Named Workmen	Father's name/ Husband's name	Sex	Designation nature of employment	Date on which Overtime worked	Total overtime worked or production in case of piece rated	Normal rate of wages	Overtime rate of wages	Overtime earnings	Rate on which overtime wages paid	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

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**Appendix-XV**(FORM 31)

**INDENTURE FOR SECURED ADVANCES**  
(Referred to in paragraphs 10.2.20 and 10.2.22 of CPW A Code)

(For use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of certain specified quantity of work in a given time)

THIS INDENTURE made the..... day of .....20..... BETWEEN .....  
(hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executor's administrators and assigns) of the one part and the PRESIDENT OF INDIA (hereinafter called the President which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated ..... (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the President that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the President has agreed to advance to the Contractor the sum of Rupees ..... on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor on ..... and the President has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees ..... on or before the execution of these presents paid to the Contractor by the President (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the President and declare as follows: -

- (1) That the said sum of Rupees ..... so advanced by the President to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the President as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the President against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Divisional Officer ..... Division (hereinafter called the Divisional Officer) and in the term of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Divisional Officer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Divisional Officer.
- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the President of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the President will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the President shall immediately on the happening of such default be repayable by the Contractor to the President together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the President in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the President to repay and pay the same respectively to him accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the President of the said sum of Rupees ..... and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the President may at any time thereafter adopt all or any of the following courses as he may deem best :-

- a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor, he is to pay same to the President on demand.
- b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the President under these presents and pay over the surplus (if any) to the Contractor.
- c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness, whereof the said ..... and ..... by the order and under the direction of the President have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by ..... the said contractor in the presence of

Signature .....

Witness Name .....

Address .....

Signed by .....

by the order and direction of the President in the presence of

Signature .....

Witness Name .....

Address .....

-----□-----□-----

Executive Engineer  
PWD Doimukh Division

**APPENDIX – XVI**

(Refer Clause 5)

**FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME**

1. Name of contractor
2. Name of work as given in the agreement
3. Agreement no
4. Estimated amount put tender CON 297 Page27
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulated in agreement
8. Period for which extension of time if has been given by authority in Schedule ‘F’ previously

letter no. and date	Extension granted	
	Months	Days
(a) 1st extension.....		
(b) 2nd extension .....		
(c) 3rd extension .....		
(d) 4th extension .....		
(e) Total extension previously given		

9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
10. Period for which extension if applied for
11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last (for causes under clause 5.2/ and 5.3).

Submitted to the Authority indicated in Schedule F with copy to the Engineer-in-charge and Sub Divisional Officer

Signature of Contractor  
Dated

-----□-----□-----

Notice for appointment of Arbitrator

[Refer Clause 25]

To

The Chief Engineer
..... (Zone ofRegion)
.....

Dear Sir,

In terms of clause 25 of the agreement, particulars of which are given below, I/ we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

- 1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/ Partnership Firm/Ltd.Co
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount in the work
7. Date of contract
8. Date of initiation of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of request made to SE for decision
17. Date of receipt of SE's decision
18. Date of appeal to you
19. Date of receipt of your decision

Specimen signatures of the applicant
(Only the person/ authority who signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/ We enclose following documents.

- 1. Statement of claims with amount of claims.
2.
3.
4.

Yours faithfully,
(Signatures)

Copy in duplicate to:

- 1. The Executive Engineer,
..... Division.

-----□-----□-----

**Form of Performance Security (Guarantee)  
Bank Guarantee Bond-Format – I**

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between.....and (hereinafter called "the said Contractor(s)") for the work (hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs.....(Rupees ..... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We,.....(hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs.....(Rupees Only) on demand by the Government.
2. We,.....(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees ....only)
3. We, the said bank further undertakes to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We,.....(indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We,.....(indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid up to .....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees ..... ) and unless .....acclaim in writings lodged with us within six months of the date of expiry or the Extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

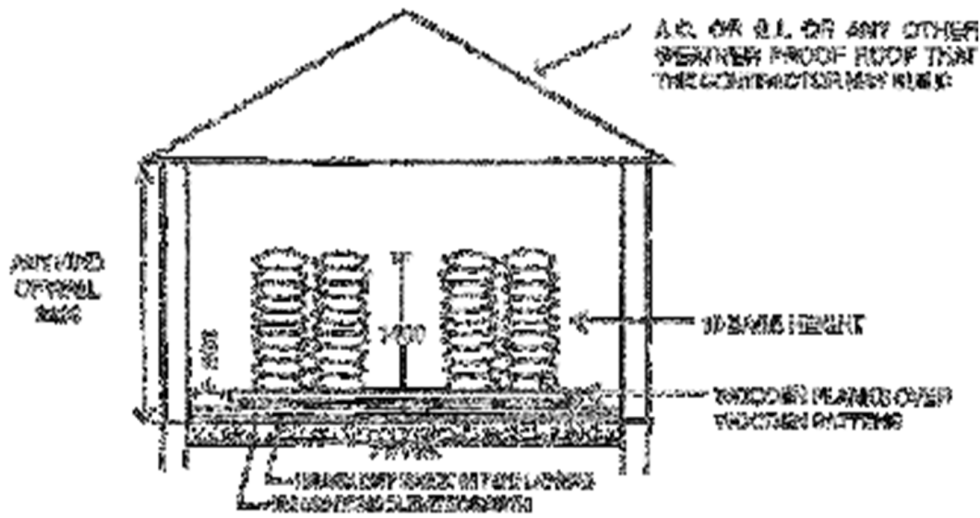
Dated the.....day of.....for (indicate the name of the Bank).

Signature:- \_\_\_\_\_

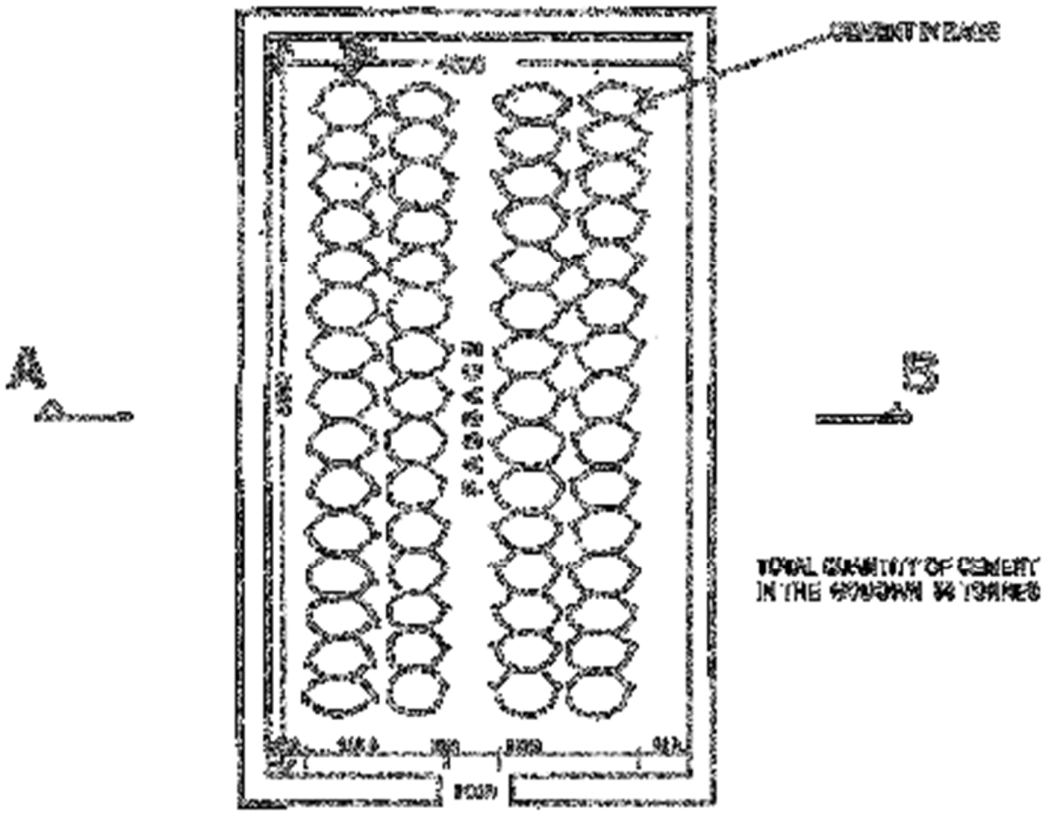
Name & Designation:- \_\_\_\_\_

Name of the Bank & Branch:- \_\_\_\_\_

**SKETCH OF CEMENT GODOWN**



**SECTION A-A**



ALL DIMENSIONS IN METERS

015\_000

**PROFORMA OF SCHEDULES**

**SCHEDULE 'A'**

Schedule of quantities (asperPWD-3) : Enclosed.

**SCHEDULE 'D'**

Extra schedule for specific requirements/ document for the work, if any : Nil

**SCHEDULE 'E'**

Reference to General conditions of Contract : CPWD GCC 2023 (Construction Works) with up to date Amendments

Name of Work : C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Nos Bridges)

Estimated cost of work : ₹ 5929.31 Lakhs

- (i) Earnest money : ₹ 59.30 Lakhs for APST Contractors & ₹ 69.30 Lakhs for Non-APST Contractors (To be returned after receiving performance guarantee).
- (ii) Performance Guarantee : 5.00 % of Tendered value.
- (iii) Security Deposit : 2.50% of Tendered value.
- (iv) Additional performance guarantee if lowest bid is abnormally low : refer IFB

**SCHEDULE 'F'**

**GENERAL RULES& DIRECTIONS: -**

Officer inviting tender : Executive Engineer, Doimukh Division, PWD, AP, Doimukh.

Maximum percentage for quantity of terms of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 &12.3 : See below (Clauses 12.2 &12.3)

**Definitions:**

- 2(v) Engineer-in-Charge : Executive Engineer, Doimukh Division, PWD, AP, Doimukh.
- 2(vii) Accepting Authority : Chief Engineer, (W/Z), PWD, AP, Itanagar,
- 2(x) Percentage on cost of materials and labour to cover all overheads and profits. : Based on APSR 2023 (Road& Bridge),
- 2(xi) Standard Schedule of Rates : APSR 2023 (Road& Bridge),
- 2(xii) Department : Public Works Department.
- 9(ii) Standard PWD contract Form **GCC 2023**, PWD form 7/8 as modified &corrected up to : March. 2026

**Clause 1**

- (I) Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying thereof from the date of issue of letter of acceptance : 15days
- (II) Maximum allowable extension with late fee @0.1% per day of Performance Guarantee amount beyond the period provided in (I) above. : 10days

**Clause 2**

Authority for fixing compensation under clause 2 : Superintending Engineer Capital Circle, PWD, AP, Itanagar.

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below:  
-

Sl. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with-held in case of non-achievement of milestone
1	1/3rd ( of whole work)	240 Days	2.5 % of tender value
2	1/2th ( of whole work)	360 Days	2.5 % of tender value
3	Whole work	730 Days	5 % of tender value

Time allowed for execution of work : 24 (Twenty Four) months

**Authority to decide:**

- (i) Extension of time : The Executive Engineer, Doimukh Division, PWD, AP, Doimukh
- (ii) Rescheduling of milestones : Superintending Engineer, Capital Circle, PWD, AP, Itanagar
- (iii) Shifting date of start in case of delay in handing over of site : Superintending Engineer, Capital Circle, PWD, AP, Itanagar

\*Schedule of handing over of site (*Should be fill up by EE*)

Part	Portion of site	Description	Time period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance		
Part B	Portion with encumbrances		
Part C	Portion dependent on work of other agencies		

#### Clause 7

- (ii) Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment : `As per prescribed mile stone.
- (ii) *Partial modification to Clause 7* : *No interest is entitled for any delaying Payment of intermediate bills submitted by contractors.*

#### Clause 7A

Whether Clause 7A shall be applicable : Yes

#### Clause 9

*Partial modification to Clause 9* : *The payment schedule as mentioned in Clause-9 of GCC shall stand modified as follows: "Payment shall be made as per availability of LOC. No interest shall be payable for such delay in payment of bills".*

#### Clause 10 A

List of testing equipment to be provided by the contractor at site lab.

- |  |                    |
|--|--------------------|
| 1. All lab Equipment's Related to Concrete works | 2. Slump Test      |
| 3. Sieve Analysis                                | 4. Water Silt Test |
| 5. Compressive Load Cube Test                    |                    |

#### Clause 10B(ii), 10B(iii) & 10B(iv)

Whether Clause 10B (ii) shall be applicable: No

Whether Clause 10B (iii) shall be applicable : No

Whether Clause 10B(iv) shall be applicable : No

#### Clause 10 C

Component of labour expressed as percent of value of work : No

**Clause 10 CA**

Whether Clause 10CA shall be applicable : No

**Clause 10 CC**

Whether Clause 10CC shall be applicable : No

**Clause 11**

Specifications to be followed for execution of work : CPWD Specification 2019 (Civil) Vol-I & II with up-to-date correction slips, BIS Code, MoRTH specifications for Roads & Bridges & relevant IRC Specification etc. and as per direction of Engineer-in-Charge

**Clause 12**

Authority to decide deviation up to 1.5 times of tendered amount : Superintending Engineer, Capital Circle, PWD, AP, Itanagar.

12.2 & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work : -N/A-

12.5 (i) Deviation Limit beyond which clauses: 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) N/A

(ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items : N/A

**Clause 16**

Competent Authority for deciding reduced rates. : Superintending Engineer, Capital Circle, PWD, AP, Itanagar

**Clause 17**

Defect Liability will be 12 (Twelve) month after completion of work. Security deposit will be released after completion of Defect Liability period.

**Clause 18DELETED**

List of mandatory machinery, tools & plants to be deployed by the contractor at site: -

Sl. No.	Type of Equipment	Numbers	Maximum age in years as on March 2026	Remarks
1.	Concrete mixer (1 Cum capacity)	6 No.	2	CRITICAL & MANDATORY
2.	Needle vibrator	10 nos	1	CRITICAL & MANDATORY
3.	Slab vibrator	6 Nos.	2	CRITICAL & MANDATORY
4.	Water Pump	4 No.	2	CRITICAL & MANDATORY
5.	Dumper /Tipper Minimum 10 cum capacity	6 No	5	CRITICAL & MANDATORY
6.	Steel shuttering	4000 sqm	5	CRITICAL & MANDATORY
7.	Materials testing equipment	1 Set	3	CRITICAL & MANDATORY
8.	Steel props	2000cum.	4	CRITICAL & MANDATORY
9.	Complete Level Surveying Equipment etc.	1 Set	1	CRITICAL & MANDATORY

**NB-1.** Documentary proof for availability of Critical Tools & Machinery shall be available with the Bidder. However, the contractor may opt for lease agreement as well.

2. The Bidder shall submit Affidavit undertaking that all the Tools and Machinery are in possession with bidder. And if the Bidder is found not complying and engaging critical equipment/ machinery during execution of work, he/ she may be liable to Penalty on violation under various clauses of the Contract.

**Clause 19C**

Authority to decide penalty for each default : Superintending Engineer, Capital Circle, PWD, AP, Itanagar.

**Clause 19D**

Authority to decide penalty for each default : Superintending Engineer, Capital Circle, PWD, AP, Itanagar.

**Clause 19G**

Authority to decide penalty for each default : Superintending Engineer, Capital Circle, PWD, AP, Itanagar.

**Clause 25**

Constitution of Dispute Redressed Committee (DRC):

1. Chairman : Will be formed when situation arises.
2. Member :
3. Member :

**Clause 32 Deleted****Requirement of Technical Representative(s) and recovery Rate**

Sl. No.	Requirement of Technical Staff		Minimum experience (Years)	Designation of Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)
	Qualification	Number (of Major+ Minor component)			
1	Graduate Engineer (Civil)	1	3 years (and having experience of two similar nature of work)	Project Manager	₹Rs 40,000.00 (Rupees forty Thousand) per month
2	Engineer or Diploma Engineer (Civil)	1	3 or 5 years' experience respectively	Project Site Engineer Planning/ Quality/ Billing Engineer	₹Rs 30,000.00 (Rupees thirty thousand) per month per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10-year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

**Clause 38**

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Schedule of Rates. : APAR2023 Road & Bridge.
- (ii) Variations permissible on theoretical quantities.
- (a) Cement
- For works with estimated cost put to tender not more than Rs. 5 Lakhs. : 3% plus/minus.
- For works with estimated cost put to tender more than Rs. 5 Lakhs. : 2% plus/minus.
- (b) Bitumen all works. : -N/A-
- (c) Steel Reinforcement and structural steel sections for each diameter, section and category. : 2% plus/minus.
- (d) All other materials. : Nil

**Annexure to Clause 34(x) showing quantities of materials for areas of surfacing to be considered for working out minimum period for which hire charges of road roller are to be recovered**

Sl. No.	Material of surfacing	Unit	Quantity or areas
	N/A		

**SPECIAL TERMS AND CONDITIONS**  
**(Authorized under Clause No. 13.2.2 of CPWD WORKS MANUAL'2014)**

1. The Payment to the Contractor shall strictly be subjected to availability of fund from the Government of AP.
2. There shall be no provision of Rate revision or Cost Escalation of the Contract being one time grant project from Government of India.
3. Bidder quoting higher than the estimated cost put to tender shall be summarily rejected.(i) Single tender shall be rejected
4. Boulder, stone aggregates, sand etc. of locally available materials in required quantities shall be obtained from the designated quarries. Materials collected from locations other than the designated quarries shall be rejected.
5. The Contractor shall procure material and execute specialized job strictly through the approved and finalized vendors and manufacturers List of the Contract Project.
6. The contractor shall have to obtain and furnish test certificates to the Engineer-in- Charge in respect of all supplies brought by him to the site of work. The materials shall be used only after approval of the same by the Engineer-in- Charge.
7. No T&Ps shall be issued to the Contractor by the Department.
8. If the Engineer asks the contractor to remove a person who is a member of the contractor's staff or workforce stating the reasons, the contractor shall ensure that person leaves the site of work within 7 (seven) days and has no further connection with the works in the contract. The contractor shall then appoint (or cause to be appointed) a replacement.
9. The engineer may require the contractor to remove (or cause to be removed) any person employed on the site or works, including the contractor's representative, who in the opinion of the Engineer- (a) Persist in any misconduct. (b) is incompetent or negligent in the performance of his duties. (c) Fails to conform with any provision of the contract, or (d) persists in any conduct which is prejudicial to safety, health or the protection of environment.
10. The Contractor shall engage experienced and well qualified technical personal in conformation Clause -31 of Performa of Schedule. However, if the work of the Project Manager (Technical) is found inefficient then the same shall be replaced by the Contractor upon the instruction of the Engineer-in-charge.
11. ~~The contractor shall have to produce/ furnish the following at the time of opening their tender (mandatory for both AP::PWD as well as Non AP:: PWD registered contractors): (a) EMD (earnest money deposit) document as per NIT. (b) Certified copy of contractor registration certificate. (c) An affidavit signed by the magistrate declaring following as:—(i) Name, address and contract number of the establishment under which the contractor is enlisted. (ii) Contractor enlistment no. and Sl. No. of enlistment with initial date. (iii) PRC. (iv)Website address of the registration/ authority for online verification. (v) GST registration certificate and PAN card. (vi) An affidavit declared and signed by contractor/ agency, that information furnished with the bid documents is correct in all aspects and any false submission of documents will invite penal action including termination of contract along with forfeitable of security deposit; shall have to be counter signed by a magistrate. Deleted~~

12. Department shall not be responsible for providing power at the site of work. In case power is required for construction, the contractor shall make his own arrangement. If required department may help and liaise with the Department of Power for the purpose.
13. No labourers without valid inner line pass shall be engaged by the Contractor. The inner line passes shall have to be obtained by the contractor himself. If required, the Department may provide necessary help.
14. Following deductions shall be imposed on the Gross value of work done from the bill @ the following rates-
  - a). Labour Cess = 1 (One) percent as per the relevant provisions of “Building and other Construction Workers Welfare Cess Act, 1996” and “Building and other Construction Workers Welfare Cess Rules, 1998.
  - b). Royalty for Forest products and Minor Minerals shall be paid by the contractor, otherwise shall be deducted from the contractor @ the prevailing rates.
15. Rates, so quoted shall be inclusive of all taxes and nothing extra shall be added/paid to the contractor.
16. The Contractor shall have a valid **GST** registration certificate. And shall have to provide up to date submission of GST returns (GSTR-3B) latest till Jan’2025.
17. **CPWD General Conditions of Contract 2023 (For Construction Works)** with up-to-date modifications/ amendments shall be applicable in addition to provisions under CPWD works manual’ 2024.
18. Following GCC clauses will not be applicable:
  - a). Clause 10Bii, 10Biii & 10Biv (Mobilization advance, Plant & machinery advance etc.)
  - b). Clause 10C, 10CA & 10CC (Cost escalation).
19. Partial modification to clause 7: No interest is entitled for any delay in payment of intermediate bills submitted by contractors.
20. Partial modification to clause 9: The payment schedule as mentioned in Clause-9 of GCC shall stand modified as follows: “Payment shall be made as per availability of LOC. No interest shall be payable for such delay in payment of bills”.
21. The Hindi version of standard form of GCC-2023 is stand deleted.
22. Before the start of work, the contractor shall submit the programme for execution of work, get it approved from the Engineer-In-Charge and strictly adhere the same for the timely completion of the project. After start of the Work, The Contractor is bound to submit Monthly Work Programme schedule in the 1<sup>st</sup> day of the Month.
23. The work shall be carried out in such a manner so as not to interfere/or effect of disturb other work being executed by agencies, if any.
24. Any damage done by the contractor to any existing work shall be made good by him at his own cost.
25. The contractor or his authority representatives (Project Manager) should always be available at the site of work to take instruction from department officers, and ensure proper execution of work. No work should be done in the absence of such authorized representatives.

26. If any required detail is not shown in the relevant drawing(s) are not available, contractor should intimate the department and he should not execute such item(s) of work on his own design and specification.
27. The contractor shall maintain in good condition all work executed till completion of entire work allotted to the contractor.
28. The rate for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials and other inputs involving in the execution of the items.
29. No payment will be made to the contractor for damages caused by rains, of other natural calamities during the execution of the works and no such claims on this account will be entertained.
30. The following documents shall be submitted to the District Labour and Employment Officer, as per prescribed application form and get registered independently.
  - a. Name and situation of place where the construction work is proposed.
  - b. Name and address of the person who is under taking the construction
  - c. Address to which communications relating the construction work may be sent.
  - d. Nature of the work involved and facilities, including any plant and machinery provided.
  - e. Number of workers likely to be employed during the various stage of construction.
  - f. Arrangement for storage of explosive, if any, to be used in construction work
  - g. Name and designation of the person who will in overall charge of construction
  - h. Approximate duration of work.
31. No objection certificate from the Managing Director, Arunachal Pradesh Co-operative Apex Bank Ltd.,Naharlagun shall be required (Mandatory for Arunachal Pradesh state registered contractors and all APST contractors).
32. “No Objection Certificate” shall be obtained by the Firm from Commissioner Labour, Govt. of Arunachal Pradesh, Itanagar before release of payment.
33. Bidder shall submit self-attested hard copies of complete bid documents including all scanned& uploaded documents before or at the time of opening of tender. Hard copies should be numbered serially, signed with firm seal and properly bonded.
34. Acceptance of financial bid shall be as per lowest bid (L1). If the successful bidder is seriously unbalanced in relation to justification of the cost of work to be performed under the contract the employer may require the bidder to produce detailed price analysis for any or all items of the bill of quantities, to demonstrate the internal consistency of those prices with the construction method and schedule proposed. After evaluation of the price analysis the employer required that the amount of the performance grantee is increased at the expense of the successful bidder to a level. The amount of which would be equivalent to the sum of amount calculated from the un balance / difference so lowest quoted(bid) percentage and normally collected performance grantee of 3 (Three)percentage. This is to protect interest of work against financial cost in the event of default of the successful bidder under the contract.
  - (i) Within 15(Fifteen) days of receipt of the latter of acceptance the successful bidder shall deliver to the employer a performance security in any form specified for an amount equivalent to 5% of the contract price plus additional security for unbalance bid.
  - (ii) The performance security deposit (including additional security forum balance bid) shall

be provided to the employer not later than the date specified in the letter of Acceptance and shall be issued in an amount and form and by a bank or surely acceptable to the employer and denominated in Indian rupee. The performance securities shall be valid until a date 28 days from the date of expiry of defect liability period and the additional security for unbalance bid shall be valid until a date of 28 days from the date of issue of the certificate of completion. Any complaints / allegations by bidders against one another shall not be entertained if not signed/issued by the proprietor or managing Director of firm/company not related to the bidding process. Further, all such correspondence by prospective bidders (bearing the signature of proprietor /MD) shall be routed through Tender inviting authority and within the timeline mentioned in the bids. Any complain, representation received after completion of tendering process also not be entertained.

35. Any agency involved / engaged in litigation / arbitration with the Department at present or blacklisted with any Govt. / Autonomous organization are discouraged and disqualified from participation in this tender. In the event of such disclosure at later stage even after acceptance / award of work, shall automatically lead to termination of contract including forfeiture of earnest money including security deposit.
36. Any arbitration shall be settled within the jurisdiction of Deputy Commissioner, Papum Pare District Yupia. Settlement of disputes & Arbitration of contract under Clause 25 shall be as per revised memorandum issued by CPWD vide No. 84/2016/QA-cum-TLC/138 dated 01.09.2016.
37. There will be **no price preference** to any bidder. Any proposal for rebate shall not be accepted.
38. All T&P mentioned under clause-18 of Proforma of schedule "F" should be in full quantity and age specified therein. Self-attested RC papers of each T&P should be uploaded. Noncompliance to quantity and quality shall be rejected.
- ~~39. The land donor shall be given preference for availing works related to infrastructure development, construction and future maintenance of built up infrastructure within the donated Land.~~
40. The PA (power of attorney) holder(s) are not allowed to bid in this tender and contractor having litigant history shall not be issued tender documents. An affidavit to be executed to this effect that he/she is not a P.A holder and, if proved otherwise at later stages after award of contract the same shall be cancelled including forfeits of security deposits, etc. to the Government of Arunachal Pradesh.
41. The joint venture firm(s) is also not allowed to bid in this tender. An affidavit to be executed to this effect that he/she is not a joint venture firm, and, if proved otherwise at later stages after award of contract the same shall be cancelled including forfeits of security deposits, etc. to the Government of Arunachal Pradesh.
- ~~42. All eligible contractors registered in class IAA category as enlisted by AP: PWD, and of equivalent class of contractors with similar bidding capacity but enlisted outside the state of Arunachal Pradesh domiciled within the territorial jurisdiction of the Assembly Constituency as per act No 7 of 2020 Vide notification No law/ legn 23/2020 dated 02-11-2020 are allowed to take part in this tender. Deleted~~
- ~~43. The contractor shall have to produce/ furnish the following at the time of opening of tender (mandatory for Non AP:: PWD registered contractors only). (a) Address for communication and proof of mobile no. (b) Employees provident fund (EPF) registration certificate. (c) List of key items of contractor's equipment for carrying the work. (d) Qualification and experience of key personal require for administration and execution of the work in civil/ electrical. (e) Similar nature of work experience as per NIT. (f) Financial turnover of last 5(five) years. (g) Ownership certificate of mandatory machinery, tools & Plants to be deployed by contractor at site as mentioned (a) to (f). Deleted~~

#### 44. Bid Validity

- i) In case the bidder does not intimate the employer after the completion of bid validity, it is presumed that the bidder has accepted that his/her bid is alive and workable.
- ii) The bid shall remain open for acceptance for prescribed period and if any bidder withdraws his/her bid before the said period or issue of letter of acceptance whichever is earlier or makes any modification in the terms and condition of the bid which are not acceptable for the department then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid, further the bidder shall not be allowed to participate in the re-bidding process of the work.

45. The rate shall be inclusive of all taxes i/c 1% labour charge

46. The rates shall be valid upto defect liabilities period.

47. No representation, complain, allegation shall be received, or entertained by the tender accepting authority during the course of evaluation and if the situation warrant same should be received through tender inviting authority only. No third party other than the bidder who have participated in online bidding can exercise this option.

48. Single tender shall not be entertain in order to upheld the fair completion from multiple bidders.

49. Any matter related to tender if required be raised during pre-bid meeting or during bid opening only. Minute of proceeding/response to query shall be promptly dealt by the tender inviting authority without any delay.

50. No P.A (Power of attorney) holder and joint venture shall be allowed to bid in this tender. An affidavit to this effect shall have to be executed failing which the bid shall be rejected.

~~51. The Press Notice for publication in NEWS Paper shall be mandatorily done by the Executive engineer PWD- AP.~~

52. The contractor shall put his/her signature in the CPWD form-8 for item rate bid document are reflected at page No. 28.

53. The tender accepting authority satisfies himself about the reasonability of rates before acceptance of the tenders. Reasonability of rates is primarily assessed on the basis of justified rates. The work shall be awarded based on the justified rate.

#### 54. Checklist for Q.A (Quality Assurance) Plan

##### **Responsibility for Quality of Work: -**

The officer who records/test checks the measurements for item of work will be responsible for quality, measurements and specifications of that item of work.

The JE/AE should make special efforts to be present at site when concreting is going on to ensure quality of the concrete in work to obtain the designed or desired strength of concrete (**Refer Para No. 5.6.4 to CWM' 2019**)

In respect of all works, the responsibility of various officers for checking of materials and workmanship of items of works shall be as given in Annexure of **SOP No.7/2**.

In case, the quality has been checked by QA unit of APPWD, the removal of defects shall be ensured within reasonable time by the Engineer-in-Charge and Q.A Unit of Circle Office. The responsibility of quality for the items checked by the Q.A Plan of Circle Office will also squarely lie with the Engineer-in-Charge and his authorised Assistant Engineer-in-Charge and Junior Engineer concern in ensuring defect free.

The Engineer-in-Charge will be fully responsible for overall quality of the work (**Refer Para No.5.14 and SOP No.5/19 to CWM' 2019**).

##### **SOP No. 7/2: Quality Assurance and Technical Audit Wing** (Refer Para 7.2 to CWM' 2019)

The various steps regarding quality assurance and technical audit are to be followed as below: -

##### **1. Minimum Quality Assurance Plan:**

- A. Minimum **Q.A (Quality Assurance) Plan** shall be part of this tender document.
- B. The number of test and frequency of testing to this work is kept at 2(Two) in a month or subject to promptness in compliance of rectification of previously notified defects will determine subsequent test and frequency of testings.
- C. Machinery and other Tools & Plants and Equipment required to be deployed at site by contractor as:

SL NO	TYPE OF EQUIPMENT	NUMBERS /QTY	MAXIMUM AGE IN YEARS AS ON MARCH 2026
1	Concrete mixer (1 Cum capacity)	6 No.	2
2	Needle vibrator	10 nos	1
3	Slab vibrator	6 Nos.	2
4	Water Pump	4 No.	2
5	Dumper /Tipper Minimum 10 cum capacity	6 No	5
6.	Steel shuttering	4000 sqm	5
7.	Materials testing equipment	1 Set	3
8.	Steel props	2000cum.	4
9.	Complete Level Surveying Equipment etc.	1 Set	1

D. Field Laboratory at work Site:

- i) All Field Laboratory Equipment's related to building works and Cement concrete works.
  - ii) Sieve Analysis equipment.
  - iii) Slump test.
  - iv) Impact human
  - v) Portable penetrometers.
  - vi) Spirit level
  - vii) Register to record test data
  - viii) Cube test.
  - ix) Water silt test.

E. The relevant and applicable codes, specifications and standards, acceptance criteria for various items of work, workmanship, materials and process employed are as:

- i) IS Code: 8112
- ii) IS Code :1786-2008
- iii) BIS Code for Building: 2012 or latest with up-to-date amendment.
- iv) Any other relevant codes on building materials, etc.

F. Maintenance of Register of Tests:

- i. The Engineer-in-Charge shall issue all the registers of tests to be carried out at construction site or in outside laboratories and shall be maintain and keep at site by the contractor.
- ii. All samples of materials including cement concrete cubes may be taken jointly with contractor by JE and out of this at least 50% in presence of AE % and 10% by EE. In absence of JE the AE shall perform this. The contractor shall be responsible for the cost of all test samples and testings including safe custody of samples.
- iii. All the tests in field laboratory setup at Construction Site shall be carried out by the Engineering Staff deployed by the contractor to be 100% witnessed by JE, 50% witnessed by AE, 10% witnessed be EE and 10% witnessed by AE(QA) respectively.
- iv. All the tests' data entries in the registers will be made by the designated Egg Staff of the Contractor. The same shall be regularly reviewed and authenticated by the JE/AE/EE.
- v. The contractor shall be responsible for safe keeping of all test's registers at Construction Site.

- G. The submission of certified copy of all test registers, MAS (Material at Site) register, hindrance register and Site order register along with each alternate R.A (Running Account) Account Bill and Final Bill shall be **mandatory**.  
And if all the test registers and hindrance register is not submitted along with each alternate R.A Bill & Final Bill, it will be responsibility of EE & DAO (Divisional Account Officer) that **no payment is released to the contractor at any cost.**
- H. Maintenance of MAS Register:
- i) All the MAS Registers including Cement and Steel Registers, separately, to be issued by the Engineer-in-Charge to the Contractor shall be maintained properly by the contractor.
  - ii) Each of the entry of receipt of material at site is 100% test checked by JE/AE whichever is available before the commencement of use of the lot.
  - iii) Each MAS Register to be checked with dated initialled by JE twice a week, and, at least once a week by AE. If there is no JE, twice by AE in a week.
  - iv) Cement Register shall be reviewed by EE twice a month with dated initial.
- I. The work so measured, checked and paid for is of the required quality and standard, both in respect of ingredient as well as the intended functions it is supposed to perform as per Sanctioned DPR and Technically Sanctioned Estimate containing each item, approved working Architectural & Structural Drawings and with all Q.A Plan compliances.
- J. **The Superintending Engineer shall also have to check and sign compliance of Q.A Plan for the work before every alternate R.A Bill. The SE shall not be absolved of his responsibilities to ensure that the quality assurance plan is complied with.** It will be his responsibility to locate the lapses and deficiency and take suitable action if Q.A Plan is not implemented in spirit and action by the field officers.

## 2. Q.A (Quality Assurance) Team at Circle Level:

- A. Q.A Team with **Superintending Engineer of Circle as its head** will comprise the **Assistant Engineer (Plg)**, whose main job is quality assurance. In order that the role of **Assistant Engineer (Quality Assurance)** is effective in the process of Quality Assurance, the following points are essentially follows:
- i. The periodicity of visit of works should be such that the process of control at various stages is possible; minimum of 2(Two) visits a month.
  - ii. There should be minimum delay between inspection of work and communication of inspection report to the field formation; 10(Ten) days' time.
  - iii. The A.E (QA) in short for Assistant Engineer (Quality Assurance) Plan shall carryout his tasks to the work that relates operationally to the quality specifications and standards laid down for the work, and to the control actions that can be applied to the construction process. The A.E (QA) Plan shall assess those aspects which are important to the overall quality of the finished work.
- B. The functions of **Q.A (Quality Assurance) Team** at Circle Level are to check the compliance of Q.A (Quality Assurance) system by the field units i.e. the JE/AE/EE and the Contractor, to locate the lapse/deficiency in the implementation of the Q.A (Quality Assurance) Plan, and, to guide the field engineers in quality related aspects of the work. For this purpose:
- i) The **Assistant Engineer, Quality Assurance** in short **A.E (QA)** shall carryout minimum 2(Two) visits to work every month.
  - ii) The Assistant Engineer (QA) shall prepare his program and take approval of the Superintending Engineer. The program should be sent to site in advance of inspection.

- iii) Such inspection by Q.A Team shall, however, **not absolve** the responsibility of the Junior Engineer/Assistant Engineer/Executive Engineer for accepting substandard/poor quality work from the contractor.
- iv) The following norms have been decided for inspection to be carried out by the **A.E (QA)** of the Circle Office:

Sl. No.	Particulars	Remarks
1	For Construction works costing less than the normal acceptance powers of the Superintending Engineer but more than or equal to the powers of the Executive Engineer.	Each works to be inspected at least <b>twice</b> during currency of work.
2	For Construction works costing more than the normal acceptance powers of the Superintending Engineer.	Each works to be inspected at least <b>thrice</b> during currency of work.
3	For Construction works of the powers of the Executive Engineer.	Each work to be inspected once.
4	For Maintenance works.	Frequency to be decided by SE.

- v) During periodical visits, efforts of the **A.E (QA)** are directed at;
- To check the quality of materials accepted by the field units for use in the work and to see whether the laid down system of “**Q.A Plan**” has been followed.
  - To check the overall quality of the finished items. The A.E (QA) shall make random checks the strength of concrete with the help of handy instruments like impact hammer, portable penetrometers for testing of strength of mortar of plaster, etc. These testing instruments are part of field laboratory setup, arranged by the contractor.
  - To check randomly the field tests carried out by the field staff/ field unit during progress of the work.
  - To provide guidance to the field staff in case of any problem relating to routine field tests.
  - Finally, the **A.E (QA)** on the basis of these observations with regards to the quality of works, general adherence to the quality assurance procedures and the standard of progress, he shall submit an overall assessment report in the form at **Annexure-V to the Superintending Engineer of the Circle**. The SE shall complete Part-V of the report with minimum delay. The **A.E (QA)** will then send the report to the Engineer-in-Charge concerned. In the case of works accepted by the Chief Engineer, or higher authority a copy of the Inspection Report is to be endorsed to the Zonal Chief Engineer for his observations/records.

**SOP No. 5/26: Special Conditions for Cement (Refer Para: 3.2.2)**

- The contractor shall procure 43 grade OPC (Ordinary Portland Cement) conforming to **IS: 8112**, as required in the work from reputed manufacturers of cement such as ACC, Ultratech, Ambuja, Jaypee Cement, Century Cement, JK Cement, Shree Cement, Topcem, Vikram Cement or any other reputed Cement Manufacturer with a production capacity not less than 2.5 Lakhs tonnes per annum as approved by Competent AP::PWD authority, which is tender accepting authority. The Engineer-in-Charge shall endeavour to get the necessary approval of selected cement from the range of reputed manufacturers from competent authority.
- The renderers may also submit a list of names of cement manufacturers which they propose to use in the work, if they wish so. The tender accepting authority reserves the right to accept or rejects name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

- C. The supply of cement shall be taken in 50 kg a bag bearing manufacturer's name and ISI marking. The sample of the cement will be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it shall be removed within a week's time by the contractor at his own cost after written order from Engineer-in-Charge to do so. The shelf life period of cement shall be 6(Six) months for non-structural works provided the cement has free flowing with no lumps. For structural works always use freshly procured cement or of less than a month storage time in an environment where temperature and humidity have been carefully monitored.
- D. The cement shall be brought in bulk supply of approximately 25 tonnes or as decided by Engineer-in-Charge. The contractor shall construct cement godown of the capacity to store 1000 bags at his own cost at site of work. The proper storage, safe keeping, watch & ward duty of the cement godown shall be the responsibility of the contractor. However, the contractor shall facilitate the inspection of cement godown by JE/AE/Engineer-in-Charge or any other authorised officer of higher offices at any time.
- E. The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor/Department in the manner indicated below:
  - i) By contractor, if the test results show that the cement does not conform to relevant BIS codes.
  - ii) By Department, if the results show that the cement conforms to relevant BIS codes.
- F. The tender accepting authority not below the rank of Superintending Engineer or above may change the brand and make of cement depending upon the availability in the local market, if needed.
- G. Similar conditions for cement of other types like slag cement, etc may be incorporated wherever required by the NIT approving authority by providing for relevant BIS Codes, suitable brands of cement and technical circulars issued by the department.
- H. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in **Clause- 10** of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in **Clause-42** of the contract and shall be governed by conditions laid therein.

**SOP No. 5/28: Special Conditions for Steel Reinforcement Bars (Refer Para 3.2.2)**

- A. The APPWD contractor shall procure IS marked TMT bars of various grades from the steel manufacturers or their authorised dealers/ Vendor from the Tender Issuing Authority having valid BIS License for **IS: 1786-2008** (Amendment- 1November' 2012).

The procured steel should have following qualities:

- i) Excellent ductility, bend ability, elongation of finished product due to possible refining technology.
  - ii) Steel should have no brittleness problem in finished product.
  - iii) Steel should carry the properties of anti-corrosion and earthquake resistance.
  - iv) Quality steel with achievement of proper level of sulphur and phosphorus as per **IS: 1786-2008**.
  - v) Consumption of steel should be accurate as per design.
- B. The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work.
  - C. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS Codes. The contractor shall supply free of charge the sample of concrete and

steel required for testing including its transportation to testing laboratories. The cost of all type of tests shall be borne by the department. In case the test results indicate that the sample arranged by the contractor does not conform to the specification as defined under para- A) (i),(ii),(iii) & (iv) above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his own cost within a week time or written orders from the Engineer-in-Charge to do so (Modified as per OM/MAN/168).

- D. The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-Charge.
- E. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in **Clause-10** of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in Clause-42 of the contract and shall be governed by conditions laid therein. This would ensure proper use of steel as per structural drawings of the works.

**Annexure-V**  
**Central Public Works Department Proforma For Quality Control Inspection**  
**By Circle Office QA Team**  
**{Referred in para 53.8(5)(e)}**

**PART-I**

1. General
  - 1.1 Name of Work:
  - 1.2 Division and Sub-Division:
  - 1.3 Inspecting officer:
  - 1.4 Assisted by:
  - 1.5 Date of present inspection:
  - 1.6 Reference to memos of previous inspection:
  
2. Particulars of work
  - 2.1 Estimated cost put to tender:
  - 2.2 Tendered Amount:
  - 2.3 AgreementNo:
  - 2.4 Name of contractor:
  - 2.5 Registration class of contractor:
  - 2.6 Date of start of work:
  - 2.7 Due date of completion:
  - 2.8 % age progress of work at site the time of inspection:
  
3. Routine Quality Control
  - 3.1 Quality Control aids:
    - 3.1.1 Is field staff equipped with: -
      - a) Copy of agreement with relevant specifications (detailed as well as special):
      - b) Copy of preliminary estimate, detailed estimate and measurements:
      - c) Up to date architectural as well as structural drawings:
      - d) Testing facilities with the help of necessary field instruments/equipment (List of equipments available at site including level, theodolite, etc. May be given):
  
4. Observations on compliance of Quality Control system after intensive inspection under following sub-heads:
  - 4.1 Earthwork:
  - 4.2 Concrete work:
  - 4.3 R.C.C work:
  - 4.4 Brick work:
  - 4.5 Stone work:
  - 4.6 Steel work:
  - 4.7 Flooring (including marble work, if any):

- 4.8 Roofing:
  - 4.9 Finishing:
  - 4.10 Miscellaneous:
  - 4.11 Services:
5. Quality and Testing of materials/products:
    - 5.1 Comment on:
      - 5.1.2 Testing facilities arranged with other Department/institution:
      - 5.1.3 Testing facilities further required to be arranged:
    - 5.2 Testing:
      - 5.2.1 Are all mandatory tests being carried out at the frequency mentioned in CPWD Specifications?
      - 5.2.2 No. of tests failed and approximate quantity rejected:
      - 5.2.3 General observations on tests, viz. Erratic results, consistently low or high results, etc:
      - 5.2.4 Follow up action taken on unsatisfactory results, with lapses in prompt follow up action:
      - 5.2.5 Samples tested by Assistant Engineer (P) and their results (Samples should invariably be taken where material/product at site does not appear to conform to the latest test results:
    - 5.3 Is material/product of make borne on approval list of Department/ISI?
      - 5.3.1 Are tests carried out on materials/products (covered under 5.3) found satisfactory?
  6. Comments on adequacy of resources employed by the contractor at site for timely compilation of work.

## **PART-II TECHNICAL AUDIT**

1. General details of work.
  - 1.1 AA & ES amount for the work and corresponding provision available for this work in the sanction:
  - 1.2 Amount of detailed estimate:
  - 1.3 Item rate/percentage rate/lump sum tender:
  - 1.4 No. of tenders received and tendered amount (call of tender):
  - 1.5 Authority accepting the tender:
  - 1.6 Is the detailed estimate technically sanctioned on the basis of complete set of architectural and structural drawings?
2. Deviation from plan/drawings.
  - 2.1 Deviations, if any:
  - 2.2 Reasons for deviation, financial implication and sanction of Competent authority:
3. Deviation in quantities of items.
  - 3.1 Reasons for deviations:
  - 3.2 Sanctioned of competent authority for the deviation:
4. Extra and substituted items.
  - 4.1 Amount of items sanctioned so far:
  - 4.2 Sanctioned of competent authority:
  - 4.3 Any minus extra item paid? Detail the reasons:
5. Issue of materials.
  - 5.1 The theoretical consumption commensurate with the work executed And quantity lying at site:
  - 5.2 Check recovery memo from the last running bill/final bill and short

Recovery made, if any:

5.3 Any material not stipulated issued?

5.3.1 Sanction/approval of competent authority for such issue:

5.3.2 Approval of rate under three rate formula:

6. Payment to contractor.

6.1 Amount of last bill paid to the contractor:

6.2 Normal frequency of payment:

6.3 Test check of measurements by Assistant Engineer/Executive

Engineer:

6.4 Part rates paid/justification for the same:

6.5 Advances to contractor.

6.5.1 Checking up of secured advance, if any, with reference to materials lying at site:

6.5.2 Reasonableness of advance for un measured work:

6.5.3 Hypothecation of documents and safe custody of materials for which advances have been given:

### **PART-III**

#### **Progress Monitoring**

1. System adopted at site for monitoring progress:
2. Percentages progress achieved vis-a-vis time given for completion:
  - 2.1 Steps taken to accelerate progress when shortfall is noticed:
3. Any extension of time?
4. Co-ordination amongst various agencies involved in execution of work:
5. Constraint noticed in smooth progress of work and direction if any, received from Executive Engineer/Superintending Engineer/Chief Engineer to overcome them.

### **PART-IV**

#### **RECOMMENDATION**

1. Give specific recommendations for immediate attention of Superintending Engineer on:
  - 1.1 Improving quality control on specific items:
  - 1.2 Comments on items lagging behind for want of drawings, materials, decision, etc:

[Assistant Engineer (QA)]

To

Superintending Engineer

### **PART-V**

#### **DIRECTION OF SE ON THE REPORT**

1. EE to improve quality of following items:
2. EE to issue notice to contractor for rectification of following defects at....
3. EE to improve slow progress:
4. Directions, if any, for solving deadlocks/problems at site:
5. Further follow up action by AE(QA) on next inspection.

Sd/- Executive Engineer  
Doimukh Division  
PWD, AP. Doimukh

**BILL OF QUANTITIES**

Name of Work:- C/o 6 Nos Double Lane Bridges and ancillary works on Itanagar-Jotte Road (CMCSRDP-II) (4 Bridges)

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
1	<b>SH : De-launching existing Steel Bailey Bridges</b>					
1.1	De-launching of Steel Bailey Bridges/Suspension bridges on Itanagar - Jotte Road	755.40	Qntl.	1,509.10		
1.2	Demolishing RCC Slab Deck including stacking of steel bars and disposal of un-serviceable materials within 50 metres lead.	41.25	Cum	4,023.70		
2	<b>SH : 15 M Span Bridge over Batt Nallah at 4.200 Km</b>					
	SH - 1 - Foundation					
1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	235.00	Cum	111.00		
2	Ordinary Rock ( not requiring blasting)	136.43	Cum	146.00		
3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	20.82	Cum	13674.00		
4	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	66.82	Cum	15035.00		
5	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	3.80	MT	133897.00		
	SH - 2 - Sub-Structure					
2.1	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
	RCC Grade M 30					
	Height 5m to 10 m					
	Using Batching plant, Transit Mixer and Concrete Pump	110.14	Cum	15604		
2.2	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	6.16	MT	134442		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
2.3	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	66.00	Each	242		
2.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	115.85	Cum	3596		
2.5	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	590.98	Cum	5470		
	SH - 3 - SUPER STRUCTURE					
3.1	Furnishing and Placing Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump					
	For Solid slab super structure					
	Height up to 5m	206.38	Cum	16753		
3.2	a) Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	8.87	MT	138783		
3.3	Reinforced Cement Concrete Crash Barrier (Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-35 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified)	31.20	Mtr	7782		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.4	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fittings to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	14.00	Mtr	6310		
3.5	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications	8.78	Cum	21771		
3.6	Drainage Spouts complete as per drawing and Technical specification slab steel expansion joint, catering to right or skew (less than 20 deg., moderately )	10.00	each	1717		
3.7	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	9.05	cum	10864		
3.8	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	24.36	cum	18970		
3.9	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m. )	468.27	Sqm	157		
3.1	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	23.20	Mtr	23911		
3.11	Load Testing of super structure of Bridge after completion in all respects using static loading method to determine acceptance criteria as per IRC:SP:51-2015 complete as per direction of Engineer-in-Charge.	1.00	Job	780000		
3.12	Painting runway/taxi track/ apron making with adequate nos of coat to give uniform finish with road marking paint of superior make as approved by Engineer-in-Charge including cleaning the surface of all dirt, scales, oil grease and other foreign materials etc and lining out complete.	6.24	Sqm	188		
	SH - 4 - Approach Road					
4.1	Excavation for Structures					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	43.20	Cum	111.00		
4.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15 in foundation for facing Element	9.60	Cum	13674.00		
4.3	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
a	RCC Grade M 30 in grooved sealing & copping for facing element	14.90	Cum	15035.00		
b	b) Fascia material and its placement (Facing material of RCC M 35 grade of concrete)	180.00	Cum	3989.00		
c	c) Assembling joining with facing element & laying of reinforcing element (Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement as per MORTH 3100 and IRC 113 made of high lenacity polyster coreb with polyethylene coating with minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 Degree calcius corresponding to 12% strain etc, complete and as directed by the Engineer-in-Charge	2434.80	Sqm	1353.00		
4.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	1365.60	Cum	3596.00		
4.5	C/o Retaining & Breast Wall of Height 3.2 M & 2.0 M respectively as per standard design and drawing					
	R/wall	20.00	Mtr	57712.00		
	B/wall	20.00	Mtr	38300.00		
4.6	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	80.00	Mtr	6310.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
4.7	Construction of Subgrade and Earthen Shoulders (Construction of sub-grade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	186.17	Cum	427.00		
4.8	Granular Sub-Base with Close Graded Material (Table:- 400-1) By Mix in Place Method					
	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 (i) Grading-I Material	96.36	Cum	2771.00		
4.9	Wet Mix Macadam					
	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	76.00	Cum	3231.00		
4.1	Dense Graded Bituminous Macadam					
	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects. (i) Grading - I (40 mm Nominal Size)	14.60	Cum	16034.00		
4.11	Bituminous Concrete					
	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects (i) Grading - II (13 mm Nominal Size)	8.40	Cum	17637.00		
	SH - 5 - River Training and Protection Work					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
5.1	Providing and laying of apron with cement concrete blocks of size 0.5x0.5x0.5 m cast in-situ and made with nominal mix of M-15 grade cement concrete with a minimum cement content of 250 kg/cum as per IRC: 21-2000.	100.00	Cum	13861		
5.2	Supply and installation of 0.17 m thick mattress made of mechanically woven, double twisted, hexagonal shaped steel wire mesh, Mesh type 6x8 as per IS: 16014 : 2018, Mesh wire dia 2.2/ 3.2 mm (ID/OD) with pleated diaphragm and prefabricated vertical ties, (Zn 90%-Al 10%)+ High Abrasion resistance polymer coated dark brown rust not more than 5% after subjecting to 10000 hours of neutral salt spray as per ISO : 9227 and polymer should be resistant to abrasion after 300 cycles and shall not expose metal wire. The third party testing for abrasion testing of polymer coating on mesh must be accredited and verified by the Indian Institute of Technology, Bombay (IIT Bombay) in strict accordance with the procedure outlined in ASTM A975, Mechanically edged/selvedged with pleated partition at 1 m interval with prefabricated vertical ties, lying with lacing wire of diameter 2.2/3.2 mm (ID/OD), placing at indicated places in dry condition at easily accessible location as per direction of Engineer including tools, plants, labour etc complete in all respect, carrying the material from nearest approach with all leads & lifts, manpower & machinery, material, labour etc complete as per detailed technical specifications and as directed by Officer Commanding, minimum tensile strength 21kN as per IRC : 116, IS 16014 & MORTH specification of Roads & Bridge work, Section 2500.	902.00	Sqm	3572		
5.3	Supply and Installation of polyester needle punched non woven geotextile as filter media elow gabion mattress as per MORTH section 770 Type-I geotextile. The width of geotextile roll shall not be less than 4.5 m at easily accessible location including top and bottom with all leads and lifts, manpower and machinery, materials, labour etc complete and as directed by Engineer-in-Charge	947.10	Sqm	164		
5.4	Supply and Installation of boulders of 90 mm to 150 mm lying with lacing wires, placing of geotextile at the back side etc as directed Engineer-in-Charge.	270.60	Cum	2704		
	<b>SH : 30 M Span Bridge Across Moin Nallah at 8.600 Km</b>					
	SH - 1 - Foundation					
1	Excavation for Structures					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	745.82	Cum	111.00		
	Ordinary Rock ( not requiring blasting)	497.21	Cum	146.00		
2	Bored cast-in-situ M 35 grade RCC Pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 M (Pile diameter 1000 mm)	58.00	Mtr	31147.00		
3	Providing steel liner 10 mm thick for curbs and 6 mm thick for steining of wells including fabricating and setting out as per detailed drawing	14.45	MT	149867.00		
4	Pile Integrity Test (Pile Integrity Test using low strain integrity testing method as per provision of IRC-78-2014, Appendix-7, Para-2 and IS: 14893 as per direction of Engineer-in-Charge (Both banks)	10.00	Nos	18880.00		
5	Levelling course for Pile Cap (Providing and Laying of PCC M 15 levelling course 100 mm thick below the pile cap)	10.01	Cum	12731.00		
6	Cement Concrete for reinforced concrete in pile cap complete as per drawing and technical specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	85.20	Cum	15213.00		
7	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	18.26	MT	133897.00		
	SH - 2 - Sub-Structure					
2.1	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
	RCC Grade M 30					
	Height 5m to 10 m					
	Using Batching plant, Transit Mixer and Concrete Pump	117.80	Cum	15604		
2.2	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	12.08	MT	134442		
2.3	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	36.00	Each	242		
2.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Granular material	31.68	Cum	3596		
2.5	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	134.64	Cum	5470		
	<b>SH - 3 - SUPER STRUCTURE</b>					
3.1	Furnishing and Placing Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump					
	For Solid slab super structure					
	Height up to 5m	116.95	Cum	16753.00		
3.2	a) Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	28.46	MT	138783.00		
3.3	Reinforced Cement Concrete Crash Barrier (Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-35 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified)	62.40	Mtr	7782.00		
3.4	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	14.00	Mtr	6308.00		
3.5	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications	24.57	Cum	21771.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.6	Drainage Spouts complete as per drawing and Technical specification slab steel expansion joint, catering to right or skew (less than 20 deg., moderately )	10.00	each	1717.00		
3.7	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	14.26	cum	10852.00		
3.8	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	27.72	cum	18951.00		
3.9	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m. )	668.21	Sqm	157.00		
3.1	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	24.40	Mtr	23911.00		
3.11	Supply and fabrication of steel work at fabricators workshop comprising of Main Girders, Cross Girders, Connecting plates, stringer, stiffening plates etc from steel lates and structural steel of specified grades as per approved drawing including straightening, descaling, degreasing, cutting to size and shape, drilling, welding and grinding, supply of all MS/HTS shop or site bolts, nuts & washers, holding down bolts and nuts etc trial assembling at workshop, one priming coat of shop paint with red lead paint conforming to IS-102 with all labour, material, cost of paints, consumables, stacking inprotected condition etc complete as per specification and as directed by the Engineer-in-Charge (Carriage cost from fabricator workshop to actual bridge site will be paid seperately)	90.57	MT	290307.00		
3.12	Taking delivery of fabricated steelwork from stacks at site as necessary, assembling and erection of fabricated steel structure to proper line, level and camber as per approved drawing complete to all respect including transportation and handling supply of all fasteners. Painting of all exposed surfaces of steel work after erection with one coat of red lead conforming to IS-102 and two coats Aluminium paint to IS-2339, grouting of anchor bolts in position, including all labour, consumables, materials, machinery, tools and tackles complete as per specification and as directed by the Engineer-in-Charge.	90.57	MT	71653.00		
3.12	Load Testing of super structure of Bridge after completion in all respects using static loading method to determine acceptance criteria as per IRC:SP:51-2015 complete as per direction of Engineer-in-Charge.	1.00	Job	780000.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.13	Painting runway/taxi track/ apron making with adequate nos of coat to give uniform finish with road marking paint of superior make as approved by Engineer-in-Charge including cleaning the surface of all dirt, scales, oil grease and other foreign materials etc and lining out complete.	12.48	Sqm	188.20		
	SH - 4 - Approach Road					
4.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	86.40	Cum	111.00		
4.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15 in foundation for facing Element	19.20	Cum	13674.00		
4.3	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
a	RCC Grade M 30 in grooved sealing & copping for facing element	17.80	Cum	15035.00		
b	b) Fascia material and its placement (Facing material of RCC M 35 grade of concrete)	200.00	Cum	3985.00		
c	c) Assembling joining with facing element & laying of reinforcing element (Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement as per MORTH 3100 and IRC 113 made of high lenacity polyster coreb with polyethylene coating with minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 Degree calcius corresponding to 12% strain etc, complete and as directed by the Engineer-in-Charge	1713.60	Sqm	1353		
4.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	856.80	Cum	3596		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
4.5	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fittings to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	80.00	Mtr	6308		
4.6	Construction of Subgrade and Earthen Shoulders (Construction of sub-grade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	186.17	Cum	427		
4.7	Granular Sub-Base with Close Graded Material (Table:- 400-1)					
	By Mix in Place Method					
	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 (i) Grading-I Material	96.36	Cum	2771		
4.8	Wet Mix Macadam					
	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	76	Cum	3231		
4.9	Dense Graded Bituminous Macadam					
	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects. (i) Grading - I (40 mm Nominal Size)	14.60	Cum	16034		
4.1	Bituminous Concrete					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects (i) Grading - II (13 mm Nominal Size)	8.40	Cum	17637		
	SH - 5 - River Training and Protection Work					
5.1	Providing and laying of apron with cement concrete blocks of size 0.5x0.5x0.5 m cast in-situ and made with nominal mix of M-15 grade cement concrete with a minimum cement content of 250 kg/cum as per IRC: 21-2000.	245.92	Cum	13861		
5.2	Supply and installation of 0.17 m thick mattress made of mechanically woven, double twisted, hexagonal shaped steel wire mesh, Mesh type 6x8 as per IS: 16014 : 2018, Mesh wire dia 2.2/ 3.2 mm (ID/OD) with pleated diaphragm and prefabricated vertical ties, (Zn 90%-Al 10%)+ High Abrasion resistance polymer coated dark brown rust not more than 5% after subjecting to 10000 hours of neutral salt spray as per ISO : 9227 and polymer should be resistant to abrasion after 300 cycles and shall not expose metal wire. The third party testing for abrasion testing of polymer coating on mesh must be accredited and verified by the Indian Institute of Technology, Bombay (IIT Bombay) in strict accordance with the procedure outlined in ASTM A975, Mechanically edged/selvedged with pleated partition at 1 m interval with prefabricated vertical ties, lying with lacing wire of diameter 2.2/3.2 mm (ID/OD), placing at indicated places in dry condition at easily accessible location as per direction of Engineer including tools, plants, labour etc complete in all respect, carrying the material from nearest approach with all leads & lifts, manpower & machinery, material, labour etc complete as per detailed technical specifications and as directed by Officer Commanding, minimum tensile strength 21kN as per IRC : 116, IS 16014 & MORTH specification of Roads & Bridge work, Section 2500.	1032.40	Sqm	3572		
5.3	Supply and Installation of polyester needle punched non woven geotextile as filter media elow gabion mattress as per MORTH section 770 Type-I geotextile. The width of geotextile roll shall not be less than 4.5 m at easily accessible location including top and bottom with all leads and lifts, manpower and machinery, materials, labour etc complete and as directed by Engineer-in-Charge	1084.02	Sqm	164		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
5.4	Supply and Installation of boulders of 90 mm to 150 mm lying with lcing wires, placing of geotextile at the ack side etc as directed Engineer-in-Charge.	309.72	Cum	2704		
	<b>SH : 30 M Span Bridge Across Dader Nallah at 9.972 Km</b>					
	SH - 1 - Foundation					
1.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	126.36	Cum	111.00		
	Ordinary Rock ( not requiring blasting)	84.24	Cum	146.00		
1.2	Embankment Construction with Material Obtained from Borrow Pits (Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	2344.91	Cum	363.00		
1.3	Bored cast-in-situ M 35 grade RCC Pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 M (Pile diameter 1000 mm)	60.00	Mtr	31147.00		
1.4	Providing steel liner 10 mm thick for curbs and 6 mm thick for steining of wells including fabricating and setting out as per detailed drawing	14.95	MT	149867.00		
1.5	Pile Integrity Test (Pile Integrity Test using low strain integrit testing method as per provision of IRC-78-2014, Appendix-7, Para-2 and IS: 14893 as per direction of Engineer-in-Charge (Both banks)	10.00	Nos	18880.00		
1.6	Levelling course for Pile Cap (Providing and Laying of PCC M 15 levelling course 100 mm thick below the pile cap)	9.50	Cum	12731.00		
1.7	Cement Concrete for reinforced concrete in pile cap complete as per drawing and technical specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	85.20	Cum	15213.00		
1.8	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	18.14	MT	133897.00		
	SH - 2 - Sub-Structure					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
2.1	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
	RCC Grade M 30					
	Height 5m to 10 m					
	Using Batching plant, Transit Mixer and Concrete Pump	136.80	Cum	15604		
2.2	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	13.55	MT	134442		
2.3	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	56.00	Each	242		
2.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	141.56	Cum	3596		
2.5	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	240.24	Cum	5470		
	<b>SH - 3 - SUPER STRUCTURE</b>					
3.1	Furnishing and Placing Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump					
	For Solid slab super structure					
	Height up to 5m	116.95	Cum	16753.00		
3.2	a) Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	28.46	MT	138783.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.3	Reinforced Cement Concrete Crash Barrier (Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-35 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified)	62.40	Mtr	7782.00		
3.4	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	14.00	Mtr	6308.00		
3.5	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications	24.57	Cum	21771.00		
3.6	Drainage Spouts complete as per drawing and Technical specification slab steel expansion joint, catering to right or skew (less than 20 deg., moderately )	10.00	each	1717.00		
3.7	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	14.26	cum	10852.00		
3.8	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	27.72	cum	18951.00		
3.9	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m. )	707.96	Sqm	157.00		
3.1	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	24.40	Mtr	23911.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.11	Supply and fabrication of steel work at fabricators workshop comprising of Main Girders, Cross Girders, Connecting plates, stringer, stiffening plates etc from steel lates and structural steel of specified grades as per approved drawing including straightening, descaling, degreasing, cutting to size and shape, drilling, welding and grinding, supply of all MS/HTS shop or site bolts, nuts & washers, holding down bolts and nuts etc trial assembling at workshop, one priming coat of shop paint with red lead paint conforming to IS-102 with all labour, material, cost of paints, consumables, stacking inprotected condition etc complete as per specification and as directed by the Engineer-in-Charge (Carriage cost from fabricator workshop to actual bridge site will be paid seperately)	90.57	MT	290307.00		
3.12	Taking delivery of fabricated steelwork from stacks at site as necessary, assembling and erection of fabricated steel structure to proper line, level and camber as per approved drawing complete to all respect including transportation and handling supply of all fasteners. Painting of all exposed surfaces of steel work after erection with one coat of red lead conforming to IS-102 and two coats Aluminium paint to IS-2339, grouting of anchor bolts in position, including all labour, consumables, materials, machinery, tools and tackles complete as per specification and as directed by the Engineer-in-Charge.	90.57	MT	71653.00		
3.12	Load Testing of super structure of Bridge after completion in all respects using static loading method to determine acceptance criteria as per IRC:SP:51-2015 complete as per direction of Engineer-in-Charge.	1.00	Job	780000.00		
3.13	Painting runway/taxi track/ apron making with adequate nos of coat to give uniform finish with road marking paint of superior make as approved by Engineer-in-Charge including cleaning the surface of all dirt, scales, oil grease and other foreign materials etc and lining out complete.	12.48	Sqm	188.20		
	SH - 4 - Approach Road					
4.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	108.00	Cum	111.00		
4.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	PCC Grade M15 in foundation for facing Element	24.00	Cum	13674.00		
4.3	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
a	RCC Grade M 30 in grooved sealing & coping for facing element	22.25	Cum	15035.00		
b	b) Fascia material and its placement (Facing material of RCC M 35 grade of concrete)	400.00	Cum	3985.00		
c	c) Assembling joining with facing element & laying of reinforcing element (Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement as per MORTH 3100 and IRC 113 made of high lenacity polyster coreb with polyethylene coating with minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 Degree calcius corresponding to 12% strain etc, complete and as directed by the Engineer-in-Charge	4446.00	Sqm	1353		
4.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	2223.00	Cum	3596		
4.5	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	200.00	Mtr	6308		
4.6	Construction of Subgrade and Earthen Shoulders (Construction of sub-grade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	232.71	Cum	427		
4.7	Granular Sub-Base with Close Graded Material (Table:- 400-1)					
	By Mix in Place Method					
	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 (i) Grading-I Material	120.45	Cum	2771		
4.8	Wet Mix Macadam					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	95	Cum	3231		
4.9	Dense Graded Bituminous Macadam					
	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects. (i) Grading - I (40 mm Nominal Size)	18.25	Cum	16034		
4.10	Bituminous Concrete					
	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects (i) Grading - II (13 mm Nominal Size)	10.50	Cum	17637		
	SH - 5 - River Training and Protection Work					
5.1	Providing and laying of apron with cement concrete blocks of size 0.5x0.5x0.5 m cast in-situ and made with nominal mix of M-15 grade cement concrete with a minimum cement content of 250 kg/cum as per IRC: 21-2000.	348.48	Cum	13,861.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
5.2	Supply and installation of 0.17 m thick mattress made of mechanically woven, double twisted, hexagonal shaped steel wire mesh, Mesh type 6x8 as per IS: 16014 : 2018, Mesh wire dia 2.2/ 3.2 mm (ID/OD) with pleated diaphragm and prefabricated vertical ties, (Zn 90%-AI 10%)+ High Abrasion resistance polymer coated dark brown rust not more than 5% after subjecting to 10000 hours of neutral salt spray as per ISO : 9227 and polymer should be resistant to abrasion after 300 cycles and shall not expose metal wire. The third party testing for abrasion testing of polymer coating on mesh must be accredited and verified by the Indian Institute of Technology, Bombay (IIT Bombay) in strict accordance with the procedure outlined in ASTM A975, Mechanically edged/selvedged with pleated partition at 1 m interval with prefabricated vertical ties, lying with lacing wire of diameter 2.2/3.2 mm (ID/OD), placing at indicated places in dry condition at easily accessible location as per direction of Engineer including tools, plants, labour etc complete in all respect, carrying the material from nearest approach with all leads & lifts, manpower & machinery, material, labour etc complete as per detailed technical specifications and as directed by Officer Commanding, minimum tensile strength 21kN as per IRC : 116, IS 16014 & MORTH specification of Roads & Bridge work, Section 2500.	490.00	Sqm	3,572.00		
5.3	Supply and Installation of polyester needle punched non woven geotextile as filter media elow gabion mattress as per MORTH section 770 Type-I geotextile. The width of geotextile roll shall not be less than 4.5 m at easily accessible location including top and bottom with all leads and lifts, manpower and machinery, materials, labour etc complete and as directed by Engineer-in-Charge	514.50	Sqm	164.00		
5.4	Supply and Installation of boulders of 90 mm to 150 mm lying with lacing wires, placing of geotextile at the back side etc as directed Engineer-in-Charge.	147.00	Cum	2,704.00		
5.5	C/o RCC Protection Wall					
a)	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. PCC Grade M15	118.62	Cum	13,674.00		
b)	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M 30	258.65	Cum	15,035.00		
5.6	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	65.15	MT	1,33,897.00		
	<b>SH : 90 M Span Bridge Across Poma River at 18.375 Km</b>					
	SH - 1 - Foundation					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
1.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	635.19	Cum	111		
	Ordinary Rock ( not requiring blasting)	423.46	Cum	146		
1.2	Embankment Construction with Material Obtained from Borrow Pits (Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	893.51	Cum	363		
1.3	Bored cast-in-situ M 35 grade RCC Pile excluding reinforcement complete as per drawing and technical specifications and removal of excavated earth with all lifts and lead upto 1000 M (Pile diameter 1000 mm)	40.00	Mtr	31147		
1.4	Providing steel liner 10 mm thick for curbs and 6 mm thick for steining of wells including fabricating and setting out as per detailed drawing	9.66	MT	149867		
1.5	Pile Integrity Test (Pile Integrity Test using low strain integrity testing method as per provision of IRC-78-2014, Appendix-7, Para-2 and IS: 14893 as per direction of Engineer-in-Charge (Both banks)	6.00	Nos	18880		
1.6	Levelling course for Pile Cap (Providing and Laying of PCC M 15 levelling course 100 mm thick below the pile cap)	8.60	Cum	12731		
1.7	Cement Concrete for reinforced concrete in pile cap complete as per drawing and technical specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	97.90	Cum	15213		
1.8	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	14.20	Cum	13674		
1.9	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M30					
	Using Batching plant, Transit Mixer and Concrete Pump	52.80	Cum	15035		
1.1	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	27.63	MT	133897		
	SH - 2 - Sub-Structure					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
2.1	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
	RCC Grade M 30					
	Height up to 5m					
	Using Batching plant, Transit Mixer and Concrete Pump	99.00	Cum	15604		
2.2	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and Technical Specifications	15.04	MT	134442		
2.3	Supplying, fitting and fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel complete including all accessories as per drawing and Technical Specifications and BS: 5400, section 9.1 & 9.2 (for PTFE) and clause 2004 of MoRTH Specifications.	12.00	Each	4898		
2.4	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	52.00	Each	242		
2.5	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	68.64	Cum	3596.00		
2.6	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	271.92	Cum	5470.00		
	<b>SH - 3 - SUPER STRUCTURE</b>					
3.1	Furnishing and Placing Reinforced/Prestressed cement concrete in superstructure as per drawing and Technical Specification					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump					
	For Solid slab super structure					
	Height up to 5m	364.86	Cum	16753.00		
3.2	a) Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	135.21	MT	138783.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.3	Reinforced Cement Concrete Crash Barrier (Provision of an Reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-35 grade concrete with HYSD reinforcement conforming to IRC:21 and dowel bars 25 mm dia, 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MOST circular No. RW/NH - 33022/1/94-DO III dated 24 June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer, all as specified)	184.00	Mtr	7782.00		
3.4	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	14.00	Mtr	6308.00		
3.5	Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications	72.45	Cum	21771.00		
3.6	Drainage Spouts complete as per drawing and Technical specification slab steel expansion joint, catering to right or skew (less than 20 deg., moderately )	36.00	each	1717.00		
3.7	PCC M15 Grade leveling course below approach slab complete as per drawing and Technical specification	14.26	cum	10852.00		
3.8	Reinforced cement concrete approach slab including reinforcement and formwork complete as per drawing and Technical specification	27.72	cum	18951.00		
3.9	Painting on concrete surface (Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 Sq.m. )	1754.11	Sqm	157.00		
3.1	Strip Seal Expansion Joint (Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.)	24.40	Mtr	23911.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
3.11	Supply and fabrication of steel work at fabricators workshop comprising of Main Girders, Cross Girders, Connecting plates, stringer, stiffening plates etc from steel lates and structural steel of specified grades as per approved drawing including straightening, descaling, degreasing, cutting to size and shape, drilling, welding and grinding, supply of all MS/HTS shop or site bolts, nuts & washers, holding down bolts and nuts etc trial assembling at workshop, one priming coat of shop paint with red lead paint conforming to IS-102 with all labour, material, cost of paints, consumables, stacking inprotected condition etc complete as per specification and as directed by the Engineer-in-Charge (Carriage cost from fabricator workshop to actual bridge site will be paid seperately)	423.61	MT	290307.00		
3.12	Taking delivery of fabricated steelwork from stacks at site as necessary, assembling and erection of fabricated steel structure to proper line, level and camber as per approved drawing complete to all respect including transportation and handling supply of all fasteners. Painting of all exposed surfaces of steel work after erection with one coat of red lead conforming to IS-102 and two coats Aluminium paint to IS-2339, grouting of anchor bolts in position, including all labour, consumables, materials, machinery, tools and tackles complete as per specification and as directed by the Engineer-in-Charge.	423.61	MT	71653.00		
3.12	Load Testing of super structure of Bridge after completion in all respects using static loading method to determine acceptance criteria as per IRC:SP:51-2015 complete as per direction of Engineer-in-Charge.	1.00	Job	780000.00		
3.13	Painting runway/taxi track/ apron making with adequate nos of coat to give uniform finish with road marking paint of superior make as approved by Engineer-in-Charge including cleaning the surface of all dirt, scales, oil grease and other foreign materials etc and lining out complete.	36.60	Sqm	188.20		
	SH - 4 - Approach Road					
4.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	216.00	Cum	111.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
4.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15 in foundation for facing Element	48.00	Cum	13674.00		
4.3	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications					
a	RCC Grade M 30 in grooved sealing & copping for facing element	44.50	Cum	15035.00		
b	b) Fascia material and its placement (Facing material of RCC M 35 grade of concrete)	550.00	Cum	3985.00		
c	c) Assembling joining with facing element & laying of reinforcing element (Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement as per MORTH 3100 and IRC 113 made of high lenacity polyster coreb with polyethylene coating with minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 Degree calcius corresponding to 12% strain etc, complete and as directed by the Engineer-in-Charge	4924.00	Sqm	1353		
4.4	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	2175.60	Cum	3596		
4.5	Type - B, "THRIE" Metal Beam Crash Barrier (Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 810)	200.00	Mtr	6308		
4.6	Construction of Subgrade and Earthen Shoulders (Construction of sub-grade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)	465.40	Cum	427		
4.7	Granular Sub-Base with Close Graded Material (Table:- 400-1)					
	By Mix in Place Method					
	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 (i) Grading-I Material	240.90	Cum	2771		
4.8	Wet Mix Macadam					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	190	Cum	3231		
4.9	Dense Graded Bituminous Macadam					
	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects. (i) Grading - I (40 mm Nominal Size)	36.50	Cum	16034		
4.10	Bituminous Concrete					
	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects (i) Grading - II (13 mm Nominal Size)	21.00	Cum	17637		
	SH - 5 - River Training and Protection Work					
5.1	Providing and laying of apron with cement concrete blocks of size 0.5x0.5x0.5 m cast in-situ and made with nominal mix of M-15 grade cement concrete with a minimum cement content of 250 kg/cum as per IRC: 21-2000.	390.50	Cum	13861		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
5.2	Supply and installation of 0.17 m thick mattress made of mechanically woven, double twisted, hexagonal shaped steel wire mesh, Mesh type 6x8 as per IS: 16014 : 2018, Mesh wire dia 2.2/ 3.2 mm (ID/OD) with pleated diaphragm and prefabricated vertical ties, (Zn 90%-Al 10%)+ High Abrasion resistance polymer coated dark brown rust not more than 5% after subjecting to 10000 hours of neutral salt spray as per ISO : 9227 and polymer should be resistant to abrasion after 300 cycles and shall not expose metal wire. The third party testing for abrasion testing of polymer coating on mesh must be accredited and verified by the Indian Institute of Technology, Bombay (IIT Bombay) in strict accordance with the procedure outlined in ASTM A975, Mechanically edged/selvedged with pleated partition at 1 m interval with prefabricated vertical ties, lying with lacing wire of diameter 2.2/3.2 mm (ID/OD), placing at indicated places in dry condition at easily accessible location as per direction of Engineer including tools, plants, labour etc complete in all respect, carrying the material from nearest approach with all leads & lifts, manpower & machinery, material, labour etc complete as per detailed technical specifications and as directed by Officer Commanding, minimum tensile strength 21kN as per IRC : 116, IS 16014 & MORTH specification of Roads & Bridge work, Section 2500.	2720.00	Sqm	3572		
5.3	Supply and Installation of polyester needle punched non woven geotextile as filter media elow gabion mattress as per MORTH section 770 Type-I geotextile. The width of geotextile roll shall not be less than 4.5 m at easily accessible location including top and bottom with all leads and lifts, manpower and machinery, materials, labour etc complete and as directed by Engineer-in-Charge	2856.00	Sqm	164		
5.4	Supply and Installation of boulders of 90 mm to 150 mm lying with lacing wires, placing of geotextile at the back side etc as directed Engineer-in-Charge.	816.00	Cum	2704		
	<b>SH - Counterfort Retaining Wall 12.00 Mtr Height 72.00 Mtr</b>					
1.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	1829.24	Cum	111.00		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
1.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	67.00	Cum	13,674.00		
1.3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	1229.76	Cum	15,035.00		
1.4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	169.68	MT	1,33,897.00		
1.5	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	408.00	Each	242.00		
1.6	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	3207.60	Cum	5,470.00		
1.7	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification					
	Granular material	482.04	Cum	3,596.00		
	<b>SH - RCC Box Culvert 2 Nos</b>					
	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	320.44	Cum	111		
	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	16.28	Cum	13674		
	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	Using Batching plant, Transit Mixer and Concrete Pump	107.10	Cum	15035		
	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	13.18	MT	133897		
	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	52.00	Each	242		
	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	74.10	Cum	5470		
	<b>SH - Retaining Wall 2.50 Mtr Height 350 m Length</b>					
1.1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	849.80	Cum	111		
1.2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	60.55	Cum	13674		
1.3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	463.75	Cum	15035		
1.4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	33.60	MT	133897		
1.5	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	490.00	Each	242		

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
1.6	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	787.50	Cum	5470		
	<b>SH - RCC Breast Wall 2.50 Mtr Height 660 Length</b>					
	Excavation for Structures					
1	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	1602.48	Cum	111		
2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	114.18	Cum	13674		
3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	874.50	Cum	15035		
4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	63.36	MT	133897		
5	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications	924.00	Each	242		
6	Providing and laying of Filter Media with granular materials/ stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specifications.	891.00	Cum	5470		
	<b>SH - CC Drain Length 3047 Mtr</b>					

Item No.	Sub Head & item of works	Qty.	Unit	Rate in Rs.		Amount in Rs.
				In fig.	In Words	
	a) CC Drain (Size 0.90 x 0.45)					
1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	4140.87	Cum	111		
2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	460.10	Cum	13674		
3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	1523.50	Cum	15035		
	<b>SH - CC Drain with RCC Cover Slab Length 432 Mtr</b>					
	a) CC Drain (Size 1.00 x 0.45) with RCC Cover Slab					
1	Excavation for Structures					
	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material					
	Ordinary soil					
	Mechanical Means					
	Depth upto 3 m (with de-watering)	626.26	Cum	111		
2	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	PCC Grade M15	69.55	Cum	13674		
3	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.					
	RCC Grade M 30					
	Using Batching plant, Transit Mixer and Concrete Pump	354.24	Cum	15035		
4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and Technical Specifications	20.88	MT	133897		
	<b>SH - Road Furniture</b>					

