

GOVERNMENT OF MAHARASHTRA**Grampanchayat PANDAVUMARA, Tq. WASHIM Dt. Washim****TENDER DOCUMENT**

Name of work: Construction Of CC Road In Dr. Babasaheb Ambedkar Nagar At Pandavumara Tq.Washim Dt. Washim Under Schedule Cast and Navbaudha Wasti Vikas

DISTRICT : WASHIM

**Sarpanch/Sachive Grampanchayat PANDAVUMARA
Tq. WASHIM Zilla Parishad, Washim.**

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INSTRUCTIONS TO THE BIDDER

Sr. No.	Particulars
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PLEASE ATTACH SCANNED COPIES OF FOLLOWING DOCUMENTS while submitting the E-Tender

1. Declaration of the Contractor on Rs 100 bond paper in PDF format.
2. UTR in the form of RTGS/NEFT/EFT for cost of tender document as mentioned in notice inviting tender.
3. UTR in the form of RTGS/NEFT/EFT for Earnest Money Deposit as per mentioned in notice inviting tender.
4. A certificate or Photostate copy of valid Registration Certificate Pan Card, Latest 3Yrs Return, GST Cert. etc.
5. Photostat of attested copy of Partnership deed and power of attorney, if necessary.
6. Valid Income Tax Clearance Certificate in original Photostat copy till 2025.
7. A list of works tendered for and in hand (Statement No. I)
8. One Similar Type Of Work Required
9. SPOT VERIFICATION LETTER WITH AUTHORIZED SIGNATORY
10. A list of work carried out (Statement No. II)
11. Affidavit on Rs 100/- Stamp Paper about Correctness and trueness of Documents submitted in Envelop No.1
12. A list of work of plant and machinery immediately available with the Tenderer for this work (As per page no 12)
13. Details of technical personnel available with the contractor whenever is applicable
- ~~14. Documents of Ownership of Hotmix plant or Consent of Hotmix plant owner~~
- ~~15. Distance Certificate of the Hotmix Plant from Worksite in the prescribed Proforma certified by the concerned SDO/AE Gr - I/SDE Wherever Applicable.~~

Important Note :

Contractor

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Please note that omission to attach any of the above documents is likely to invalidate the tender.

DETAILED TENDER NOTICE

Grampanchayat PANDAVUMARA Tq. WASHIM Washim Zilla Parishad, Washim (Maharashtra State)

NOTICE INVITING E-TENDER NO. 1/2025 -26 (1 call)

Sarpanch/Secretary Grampanchayat PANDAVUMARA Tq. WASHIM, Zilla Parishad, Washim. invites online percentage rate tender from contractors registered in Zilla Parishad in appropriate class / category for following Works in District Washim.

Sr. no	Name of work	Amount put to tender Rs	Class of Contractor	Period of completion	Tender Fee in Rs	Tender EMD in Rs
1	<u>Construction Of CC Road In Dr. Babasaheb Ambedkar Nagar At Pandavumara Tq.Washim Dt. Washim Under Schedule Cast and Navbaudha Wasti Vikas</u>	700000/-	Class VI	As Per Estimate	500 /-	7000/-

1. The complete bidding process will be **online (E-tendering)**.
2. **All the notifications regarding this tender notice hereafter will be published online on website <http://mahatenders.gov.in>**
3. Bidding document can be seen and downloaded from the website "<http://mahatenders.gov.in>" from 14:30 hours on 27/02/26 to 06/03/2026 **up to 17:00 hours** for the work
4. The bid can be submitted in electronic format on the website "<http://mahatenders.gov.in>" from 14:30 hours on 27/02/26 The deadline for submission of bid is up to 17.00 hours on Dt. 06/03/2026
5. Bidder must have submit the tender fee & EMD (1%) Should be submitted online shown in Notice details on portal only.
6. Bid shall be treated as 'invalid' if scanned copies as mentioned in (5) above are not Submitted online along with the bid
7. Technical Bids will be opened online on 07/03/2026 at 17.00 hours on website <http://mahatenders.gov.in> in the Office of the **Sarpanch/Sachive Grampanchayat PANDAVUMARA TQ WASHIM ,Zilla Parishad, Washim** and financial bid may also open on same day and same time **if Possible**
8. Security Deposit (total 4 % of the cost of bid) to be submitted at the time of agreement is 2.% of contract price and balance 2.% will be deducted from running bill to whom is applicable.
9. The guidelines to download the tender document and online submission of bids and Procedure of tender opening can be downloaded from website <http://mahatenders.gov.in>
10. Right to reject or cancel any or all the tenders without assigning any reason thereof what so ever is reserved by the undersign.
11. The amount of earnest money will be forfeited in case of successful contractor does not pay the amount of initial security deposit within the time specified as stipulated by the Executive Engineer and complete the contract documents. In all other cases earnest money will be refundable.
12. The successful bidder shall have to pay, half the Security Deposit in cash or in the form of approved security form and the balance is recoverable through running account bills at the percentage stipulated in the agreement.

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13. In the event of failure of the tenderer to pay cash security deposit within 10 days (Unless extended in writing by the executive engineer from the date of receipt of notice (sent by Registered post) of acceptance of his tender, the amount of earnest money shall be forfeited to Government. The acceptance of his tender shall be considered as withdrawn Except that, in the event of the notice of acceptance of the tender to being issued within 60 days of the date of opening of tenders, the tenders shall, have the option to be intimated in writing in good time before the expiry of (60 days period) of withdrawing his tender, in which case the earnest money should be refunded in full.
14. The acceptance of the tender may be intimated to the contractor electronically or otherwise and either by the officer competent to accept the tender or by higher authorities such as Executive Engineer (Works Divn.), Z.P.Washim or Chief Accounts & Finance Officer or Government and such intimation shall be deemed to be an intimation of acceptance of the tender given by the authority competent to accept the tender.
15. No pages should be removed from, added in, or replaced in the tender.
16. Examination of drawing and site conditions-The tenderer shall in his own interest carefully examine the drawing conditions of contract specifications etc. He shall also inspect the site and shall acquaint fully himself about the climate, physical and all other conditions prevailing at site, the nature, magnitude, special features, practicability of the works, all existing and required means of communications and access to site, availability of housing and other facilities, the availability of labour and material, labour camp site, stores and godowns etc. He shall obtain all necessary information as to the risks, contingencies and other circumstances which may effect and influence the tender. No claims on any of the above or any other factors will be entertained by the Government, should there be any discrepancy, doubt or obscurity as to the meaning of any of the tender documents, or as to the instructions to be observed by him. He shall set forth in writing such discrepancy or doubt or obscurity and submit the same to the Executive Engineer.
17. The contractor (s) whose tender is accepted is required to note that no foreign exchange will be released by the Department.
18. Tenders, which do not fulfill all or any of the conditions or are incomplete in any respect are liable to summary rejection.
19. Right to reject any or all tenders without assigning reasons there for is reserved. The acceptance of the tender lies with the Sarpanch/Secretary Grampanchayat.
This notice inviting tender shall form part of the tender agreement.
21. The successful tenderer will be required to produce to the satisfaction of the specified concerned authority a valid and concurrent license issued in his favour under the provision of the Contract Labour (Regular and Abolition) Act, 1970 before starting the work. Failure to do so, acceptance of the tender shall be liable to be withdrawn and security deposit forfeited.
22. Bidder must have to fill the documents in the specified envelop only otherwise the bid will be considered to be rejected.
23. **About GST is as on government resolution GST-1017/p.k.81/karadhan-1, Date 19 Aug 2017**

**Sarpanch/Sachive
Grampanchayat PANDAVUMARA
Tq. WASHIM Zilla Parishad, Washim**

DECLARATION OF THE CONTRACTOR

Name of work:

Tender Notice No.:

I / We hereby declare that,

1. I / We are interested in the above named work in the tender notice.
2. I / We have submitted a bid for the said work.
3. I / We have made myself / ourselves thoroughly conversant with the local conditions regarding all materials and labour on which I / We have based my / our rates for this tender. The specifications and leads on this work have been carefully studied and understood before submitting this tender.
I / We undertake to use only the best materials approved by Executive Engineer, or his duly authorized assistant during execution of the work and to abide by the decisions.
4. I / We accept all the terms and conditions laid down in the tender document.
5. The rate quoted by me / us is unconditional, I / we understand that conditional tender is liable for rejection.

Signature
(Contractor)

To,

**Tender Inviting Authority
Sarpanch/Sachive
Grampanchayat PANDAVUMARA Tq. WASHIM,
Zilla Parishad, Washim.**

STATEMENT NO. I

Details of work tendered for and in hand as on the date of submission of tender.
(To be submitted by contractor on contractor's letter head in pdf format)

Name of the Tenderer:-

Sr. No.	Name of work	Place & Country	Work in hand		Anticipated date of completion	Work tendered for			Remarks.
			Tendered Cost	Cost of remaining work		Estimated cost	Date when decision in expected	Stipulated date or period of completion	
1	2	3	4	5	6	7	8	9	10

Signature of the Contractor

Contractor

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STATEMENT NO. II**Details of works carried out by the Contractor.**

(To be submitted by contractor on contractor's letter head in pdf format)

Name of the Tenderer:

Sr. No.	Name of Work	Cost of Work	Date of starting	Stipulated date of completion	Actual date of completion	Remarks
1	2	3	4	5	6	7

Signature of the Contractor

Contractor

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STATEMENT NO. III**Details of plant and machinery immediately available with the Tenderer for this work**

(To be submitted by contractor on contractor's letter head in pdf format)

Name of the Tenderer:

Sr. No.	Name of Equipment	No. of units	Kind and make	Capacity	Age and condition	Present Location	Remarks.
1	2	3	4	5	6	7	8

Signature of the Contractor

Contractor

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STATEMENT NO. IV

Details of technical personnel available with the contractor whenever is applicable
(To be submitted by contractor on contractor's letter head in pdf format)

Name of the Tenderer:

Sr. No.	Name of Person	Qualification	Whether working in field or in office	Experience of execution of similar work	Period for which the person is working with the tender	Remarks
1	2	3	4	5	6	7

Contractor

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Signature of the Contractor

FORM – V**ADDITIONAL CONDITIONS OF THE TENDER UNDERTAKING**

The tenderer shall submit an undertaking on Rs. 100/- stamp paper in the Envelop no. 1.

The under taking shall be as under :-

I The undersigned _____ owner of the hot mix plant cited at _____ do hereby promise to make available my hot mix plant on hire or otherwise to M/s / shri _____ for execution of the work of _____ by hot mix as and when required by him

Signature of owner of hot mix plant

Name

Date

TECHNICAL CONDITIONS

- (a) The location of the drum mix plant shall be such that the quality and temperature shall be maintained as per M.O.R.T. & H. specification at the time of laying of bituminous hot mix. It shall be located within 60 Km from farthest point of work.
- (b) The sketch map showing the work site and plant (for which ownership document are furnished) within 60 Km and distance from the farthest point of the work site to the plant site in the prescribed proforma certified by the SDO/ DE / AE Gr-I in service on the date fixed for receipt of tender shall be enclosed in Envelop No.1, failing which, Envelop No.2 will not be opened
- (c) The use of specialized machineries for carrying out the asphaltting items of works such as. Automatic Computer controlled Drum Mix plant of 40 to 60- MT/Hour as per clause 501.1 & clause. 501.3 confirming to MORT & H specifications; paver finisher; mechanical sprayer etc. is obligatory.

The contractor who does not own the hot mix plant shall furnish an undertaking on stamp paper of Rs.100/- dully. notarized from the hot mix plant owner whose plant is located within a reasonable distance from the farthest point of work, so as to maintain the temperature *of mix*, that he shall supply the hot mix material required for the work throughout the contract period, .Without any hindrance. (form no.V)

The contractor shall also give an undertaking that he / they will hire and mobilize the paver finisher & mechanical sprayer , Vibratory roller, Static Roller to work site, before the commencement of hot mix work.

The contractor submit documentary proof of Hot mix plant which undertaking is given & attached sketch map plan in the prescribed proforma showing the work site & Plant distance within 60 Km. from the farthest point of the work site certified by the Concerned SDO/ DE / AE Gr-I in service on the date fixed for receipt of tender shall be enclosed in Envelop No.1, failing which, Envelop No.2 will not be opened

The location of the drum mix plant shall be such that the quality and temperature shall be maintained as per M.O.R.T.& H. specification at the time of laying of bituminous hot, mix. It shall preferably be located within 60 K.M. from farthest point of work.

The Contractor shall also make necessary suitable arrangement for maintaining the quality and temperature of bituminous mix by covering hot mix with thick tarpoline during conveying or themocol coating, to conveying vehicle or any other suitable arrangement, so that quality and temperature will be maintained as specified, at the time of laying bituminous hot mix

List of the Plant and Machinery Which The Contractor must own in his name
(To be submitted by contractor on contractor's letter head in pdf format)

Name of the Tenderer :-

Sr.No.	Description	Nos	No of plant/ Machinery in contractors own name	Whether documents of ownership / Hiring attached ?
1	2	3	4	5
1	Needle Vibrator	2		
2	Concrere Mixture	1		
3	Diesle road roller (8-10 tones)	1		
4	Steel Centering	100 sqm		
5	Weigh betcher	2		
6	Water Tanker	1		

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ADDITIONAL CONDITIONS FOR CONTRACTORS

Hereby it is brought to notice to the bidders to fulfill the following conditions other wise their bid likely to be rejected .

- 1** In case the tenderer whose offer is found lowest is requested to negotiate and reduce the offer, if the contractor does not respond within a period of 10 days the tender accepting authority without issuing any reminder reserves the right to reject such tender.
- 2** In case the contractor who is informed of acceptance of his tender, does not remit the initial Security Deposit within a period of 10 days, the tender accepting authority reserves the right to forfeit the Earnest Money Deposit without issuing any reminder to take further action according to the tender provision.

CONDITIONS OF B – 1 CONTRACT

Clause1. The person / persons whose tender may be accepted (hereinafter called the contractor, which expression shall unless excluded by or repugnant to the context include his heirs, executors, administrators, and assigns) shall (A) within 10 days (which may be extended by the Superintending Engineer concerned up to 15 days if the Superintending Engineer thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the Executive Engineer in cash or Government securities endorsed to the Executive Engineer (if deposited for more than 12 months) of sum sufficient which will made up the full security, deposit specified in the tender or (B) Permit Government at the time of making any payment to him for work done under the contract to deduct such as will amount to*percent of all moneys so payable such deductions to be held by Government by way of security deposit) Provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above, then and in such case, if the sum so deposited shall not amount to*percent of the total estimated cost of the work, it shall be lawful for Government at the time of making any payment of the contractor for work done under the contract to make up the full amount of Percent by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to Government under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due or may become due by Government to the contractor under any other contract or transaction of any nature on any account what over and on the extent of his security deposit being reduced by reason of any such deduction or sale aforesaid the contractor shall, within 10 days there after, make good in cash or Government securities endorsed as aforesaid any sum of sums which may have been deducted from raised by sale of his security deposit or any part there of the security deposit referred to when paid in cash may at the depositor, be converted into interest bearing securities provided that the depositor has expressly desired this in writing.

*Security deposit
P.W.D.
resolution No.
CAT /1087/CR-
94 Building-2
dt. 14-06-89*

If the amount of the security deposit to be paid in a lump sum within the period specified at (A) above is not paid the tender/contractor already accepted shall be considered as cancelled and legal steps taken against the contract for recovery of the amount, the amount of the security deposit lodged by a

contractor shall be refunded along with the payment of the final bill, if the dated upto which the contractor has agreed to maintain the work in good order is over. If such dated is not over only 50% amount of security deposit shall be refunded along with the payment of final bill. The amount of security deposit retained by the government shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. In the event of the contractor has agreed to maintain the work in good order then subject to provision of clauses 17 and 20 here of the amount of security deposit retained by the government shall be adjusted towards the excess cost incurred by the department on rectification work.

Clause 2. The time allowed for carrying out the work as entered in the tender shall be strictly observed the contractor and shall reckoned from the date on which the order to commence work in given to the contractor. The work shall thorough the stipulated period of the contract be proceed with all due diligence (time being deemed to be the séance of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one percent or such smaller amount as the Superintending Engineer (whose decision in writing shall be final) may decide of the amount of the estimated cost of the whole as shown by the tenderer for every day that the work remains uncompleted or unfinished after the proper dates and further to ensure good progress during execution of the work. The contractor shall be bound in all cases in which the time allowed for any work exceeds one month to complete. *Compensation for delay.*

Of the work in	of the time
25%	25 days
50%	50 days
75%	75 days
100%	90 days

Note:- The quantity of the work to be done within a particular time to be specified above shall be fixed and inserted in the blank space kept for the purpose by the officer competent to accept the contracts after taking into consideration the circumstance of each case and abide by the programme of detailed laid down by the Executive Engineer.

The following proportion will usually be found suitable in 1/1, 1/2, 3/4 of the time.

Reasonable progress of earth work, 1/6, 1/2, 3/4 of the total value of sthe work to be done.

Reasonable progress of masonry work 1/10, 4/10, 8/10 of the total value of the work to be done.

In the event of the contractor failing to comply with this conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the Superintending Engineer (whose decision in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remains incomplete provided always that the total amount compensation to be ad under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender. Superintending Engineer should be the final authority in this respect, irrespective of the fact that the tender is accepted by Chief Engineer, Additional Chief Engineer, Superintending/Executive Engineer or Asst. Engineer/Deputy Engineer.

Clause 3. In any case in which under any clause of this contract the contractor shall have rendered himself liable to Signature of the Contractor pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted

Action when, whole of security deposit is forfeited.

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by installments of in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause the engineer, on behalf of the Government of Maharashtra, shall have power to adopt any of the following courses, as he may deem best suited to the interest of Government:-

- (a) The respond the contract (for which recession notice in writing to the contractor under the head of Executive Engineer shall be conclusive evidence) and in that case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of Government.
- (b) To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work-charged establishment employed for getting the un-executed part of the works completed and crediting him with the value of the work done departmentally in all respect in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to the costs and other allied expenses so incurred and so the value of the work so done departmentally shall be final and conclusive against the contractor.
- (c) To order that the work of the contractor be measured up and to take such part there of as shall be unexecuted out of his hands, and to give it to another contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory, staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexecuted work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contractor.

In case the contract shall be rescinded under clause (a) above the contractor shall not be entitled to recover or he paid, any sum for any work therefore actually performed by him under this contract unless and until the Executive Engineer shall have certified in writing the performance of the such work and the amount payable to him in respect there of and he shall only be entitled to paid the amount so certified. In the event of either of the courses referred to in clause (b) or (c) being adopted and the cost of the work executed departmentally or through a new contractor the amount of excess shall be deducted from any money due to the contractor by Government under the contract or otherwise howsoever or from his security deposit or the sale proceeds there of provided, however, that contractor shall have no claim against. Government even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the there courses mentioned in clause (a), (b) or (c) is adopted by the Executive Engineer, reason of his having purchased or procured any materials, or entered into any engagements, or made any advance on account of or with a view to the execution of the work or the performance of the contract.

Clause 4. In the progress of any particular portion of the work is unsatisfactory the Executive Engineer shall notwithstanding that the general Progress of the work is in accordance with the conditions mentioned in clauses 2, be entitled to take action under clause 3(b) after giving the contractor 10 day's notice in writing. *Action when the progress of any particular portion of the work is unsatisfactory.*

Contractor

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The contractor will have no claim for compensation, for any loss sustained by him owing to such action.

Clause 5. In any case in which any of the powers conferred upon the Executive Engineer by clause 3 and 4 here of shall have become exercisable and the same shall not have been exercised the non-exercise there of shall not constitute a waving of any of the conditions here of and such powers shall not with standing be exercisable in the event any future case of default by the contractor for which under any clause here of he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Executive Engineer taking action under sub-clause (b) or (c) of clause 3, he may, if he so desires, take possession of all any tools and plant, materials and stores in or upon the work of the site there of or belonging to the contractor, or there of paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates, or in the case of contract rates not being applicable at current market rates to be certified by the Executive Engineer whose certificate there of shall be final. In the alternative the Executive Engineer may, after giving notice in writing to the contractor or his clerk of the work, for man or other authorized agent require him to remove such tools and plant, materials, or stores from the premises within a time to be specified in such notice and in the event of the contractor failing to comply with any such requisition, the Executive Engineer may remove them at the contractor's expense or sale them by action or private sale on account of the contractor and at his risk in all respect and the certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

Contractor remains liable to pay compensation if action not taken under clauses 3 and 4.

Power to take possession of or require removal of or sell contractor's plant.

Extension of time. **Clause 6.** If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidable hindered in its execution or on any other ground he shall apply in writing to the Executive Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as a foresaid or on which the cause for asking for extension occurred, whichever is earlier and the Executive Engineer, or in the opinion of Superintending Engineer, or Chief Engineer as the case may be if in his opinion, there were reasonable grounds for granting an extension, grant such extension as he thinks necessary or proper.

Final certificate **Clause 7.** On the completion of the work the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer-in-charge) of such completion, but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned off, the dirt from all wood work, doors, windows, wall, floor or other parts of any building in or upon which the work has been executed or of which he may have had possession for the purpose of executing the work, or until the work shall have been measured by the Engineer-in-charge or where the measurement have been taken by his subordinates until they have received approval of the Engineer-in-charge, the said measurements being binding and conclusive against contractor. In the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding surplus materials and rubbish and cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the contractor, remove such

scaffolding, surplus materials and rubbish, and dispose off the same as he thinks fit and clean of such dirt aforesaid and the contractor shall forthwith pay the amount of all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Clause 8. No payment shall be made for any work estimated to cost less than rupees one thousand till after the whole of work shall have been completed and a certified of completion given. But in the case of works estimated to cost more than rupees on thousand the contractor shall on submitting a monthly bill therefore be entitled to receive pay-in-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the Engineer-in-charge from

Payment on intermediate certificate to be regarded as advance.

requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstructed or re-erected not shall nay such payment be considered as an admission of the due performance of the contract or nay part thereof in any respect or the occurring of any claim nor shall it conclude, determine or effect in any other way the powers of the Engineer-in-charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way very or effect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise the Engineer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding

Payment at reduced rates on

Cl: *account of items of work not accepted as completed,* several items of work estimated to cost more than Rs.1,000 agreed to valid only when the item concerned is accepted as having been in accordance with the sanctioned specifications. In case where one items of work are not accepted as so completed by the Engineer-in-charge make may payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on account bills.

to be at the discretion of the Engineer-in-charge.

Clause 10. A bill shall be submitted by the contractor in each month or before the date fixed by the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within ten days from the presentation of the bill. It the contractor does not submit the bill within the time fixed as aforesaid, the Engineer-in-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose countersignature to the measurement list shall be sufficient warrant, and engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

Bill to be submitted monthly

Clause 11. The contractor shall submit all bills on the printed forms to be had on application at the office of the Engineer-in-charge. The charges to be made in the bills shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the tender at the rates hereinafter for such work.

Bills to be on printed forms

Clause 12. If the specification or estimate of the work provides for the use of any special description of material to be supplied from the store of the Department store of if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge. (such material and stores and the prices to be charged therefore

Stores supplied by Government

as hereinafter mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of h\this contract specified in the schedule or memorandum here to annexed) the contractor shall be supplied with such materials and stores as may be required from time to time to be sued by him for the purpose of the contract only, and value of the full quantity of the materials and stores f\so supplied shall be set off or deducted from any sums then due, or thereafter to become due to the contractor under the contract, or otherwise, or from the security deposit or the proceeds of sale there of the security deposit is held in government and shall n no account be removed from the site of the work, and shall at all time be open for inspection by the Engineer-in-Charge so requires by a notice in writing given under his hand but the contractor shall not be entitled to return any such materials except with consent of the Engineer-in-charge so requires by a notice in writing given under his hand but the contractor shall not be entitled to return any such materials except with consent of the Engineer-in-charge and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or any wastage in or damage to any such materials.

Clause 12.(A) - All stores of controlled materials such as cement, steel etc. supplied to the contractor by Government should be kept by the contractor under lock and key and will be accessible for inspection b the Executive Engineer or his agent at all the times.

Works to be executed in accordance with Specification, drawing, orders, etc.

Clause 13. The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also son form exactly, fully and faithfully to the designs, drawing and instructions in writing relating to the work signed by the Engineer-in-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site of the work during office hours. The contractor will be entitled to receive their sets of contract drawing and working drawings as well as one certified copy of the accepted tender along with the work order free of cost further copies of the contract drawings and workings drawings if required by him, shall be supplied at the rate of Rs..... Per set of contract drawings and Rs..... Per working drawing except where otherwise specified.

Alteration in specifications and designs not to invalidate contracts

Clause 14. The Engineer-in-charge shall have power to make any alteration in or additions to the original specifications, drawings designs, and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Engineer-in-charge and such alteration shall not invalidate the contract, and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respect on which he main work, and at the same rates as are specified in the tender for the main work and if the additional and altered work includes any class of work for which no rate is specified in this contract, then such class of works shall be carried out at the rates entered in the schedule of rates of the division or at the rates mutually agreed upon between the Engineer-in-charge and the contractor whichever are lower. It the additional or altered work for which no rate is entered in the schedule of rates of the division is ordered to be carried out before the rates are agreed upon then the contractor shall within seven days of the date of

Rates for works not entered in estimate or schedule of rate of the district.

receipt by him of the order to carry out of the work, inform the Engineer-in-charge of the rate which it is his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry out in such manner as he may consider advisable provided always that if the contractor shall commence work or incur any expenditure in regard there to before the rates shall have been determined as lastly hereinbefore mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of a dispute the decision of Superintending Engineer of the circle will be final.

Where, however the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the completed authority the alterations above referred to shall be within the scope of such designs drawings, and specifications appended to the tender.

The time limit for the completion of the work shall be extended in the proportion that increase in its cost occasioned by alterations or additions bears to the cost of the original contract work, and the certificate of the Engineer-in-charge as to such proportion shall be conclusive.

Extension of time in consequence of additions or alterations.

No claim to any payment or compensation.

Clause 15. (1) If any time after the execution of the contract documents the Engineer shall for any reason what-so-ever (other than default on the part of the contractor for which the Government is entitled to rescind the contract) desires that the whole or any part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out at all he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith suspend or stop the wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury to the work already done or endanger the safety thereof provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor. The contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.

(2) Where the total suspension of work ordered as aforesaid continued for continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the unexecuted part of the work by giving a 10 day's, of such intention and requiring the Engineer to record the final measurement of the work already done and to pay final bill. Upon giving such notice the contractor shall be deemed to have been discharged from his obligations to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurements and make such payment as may be final due to the contractor within a period of 90 days from the receipt of such notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

(3) Where the Engineer required to contractor to suspended the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Engineer within 30 days of the resumption of work after such suspension of payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained idle on the site or on the account of his having and to pay the salary or wages of labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension or in respect or any suspension whatsoever occasioned by unsatisfactory work or any other default on his par. The decision of the Engineer in his regard shall be final and conclusive against the contractor.

No claim to compensation on account of loss on account of delay in supply of material by Government.

(4) In event of-

(i) Any total stoppage of work on notice from Engineer under sub clause (1) in the behalf.

(ii) Withdrawal by the contractor from the contractual obligations complete the remaining unexecuted work under sub-clause (2) on account of continued suspension of work for a period exceeding 90 days.

OR

(iii) Curtailment in the quantity of item or items originally tendered on account of any alternation, commission on substitution in the specification, drawings, designs or instruction under clause (14) I where such curtailment exceeds 25% in quantity and the value of the quantity curtailed beyond 25 percent at the rates for the item specified in the tender is more than Rs. 5000/-

It shall be open to the contractor, within 90 days from the service of (i) the notice of stoppage of work or (ii) the notice of withdrawal from the contractual obligations under the contract on account of the continued suspension of work or (iii) notice under clause (14) 1 resulting in such curtailment to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt b him of the notice of stoppage suspension or curtailment and require the Government to take over on payment such material at the rates determined by the Engineer, provide, however, such rates shall in no case exceed the rates at which the same was acquired by the contractor. The Government shall thereafter take over the material so offered provided the quantities offered, are not in excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Engineer.

Clause 15.(A) The contractor shall not be entitled to claim any compensation from Government for the loss suffered by him on account of delay by Government in the supply of materials entered in schedule A where such delay is caused by-

No claim to compensation on account of loss due to delay in supply of material by Government.

(i) Difficulties relating to the supply of railway wagons.
 (ii) Force majeure
 (iii) Act of God
 (iv) Act or enemies of the state or any other reasonable cause beyond the control of Government.

In the case of such delay in the supply of materials, Government shall grant such extension of time for the completion of the work as shall appear to the Executive Engineer to be reasonable in accordance with the circumstances of the case. The decision of the Executive Engineer as to the extension of time shall be accepted as final by the contractor.

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Clause 16. Under no circumstance whatever shall the contractor be entitled to any compensation from Government on any account unless the contractor shall have submitted a claim in writing to the Engineer-in-charge within one month of the case o such claim occurring.

Time limit for unforeseen claims.

Clause 17. If any time before the security deposit or any part thereof is refunded to the contractor it shall appear to the Engineer-in-charge or his subordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contracted for, or are otherwise not in accordance with the contract, it shall lawful for the Engineer-in-charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles companied of may have been inadvertently passed, certified and paid for, the contractor shall be bound forthwith to rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or if so required, shall remove the materials or articles so specified and provided other proper and suitable materials or articles at his own charge and cost and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimate for every day not exceeding 10 days, during which the failure so continue and in the case of any such failure the Engineer-in-charge may rectify or remove and re-execute the work or remove, and replaced the materials or articles complained of as the case may be at the risk and expenses in all respects of the contractor should the Engineer-in-charge consider that any such inferior work or materials as described above may be accepted or made use of it shall be within his discretion to accept the same as such reduced rates he may fix therefore.

Action and compensation payable in case of bad work.

*P.W.D.
Resolution No.
CAT-1087
/CR/94-Building-
2 dt. 14-6-89.*

Clause 18. All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in-charge and his subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention to the Engineer-in-charge and his subordinate to visit the work shall have been given to the contractor, either himself be present to receive orders and instruction or have responsible agent duly accredited in writing present for that purpose. Orders given to the contractor’s duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

Work to be open to inspection.

Contractor or responsible agent to be nresent

Clause 19. The contractor shall give not less than five day’s notice in writing to the Engineer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or place beyond the reach of measurements and shall not cover up or place beyond the reach of measurements any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractor’s expense and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

Notice to be given before work is covered un.

Clause 20. If during the period of 24 months for carpet, seal coat & C. D. Work & 6 months for other items from the date of completion as certified by the engineer-in-

Contractor liable for imperfections.

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charge pursuant to clause 7 of the contract or.....or.....months/years after commissioning the work, whichever is earlier in the opinion of the Executive Engineer, the said work is defective in any manner whatsoever, the contractor shall forthwith on receipt of notice in that behalf from the Executive Engineer, duly commence execution and completely carry out at his cost in every respect all the work that may be necessary for rectifying & setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the Executive Engineer in the event of the contractor failing or neglecting to commence execution of the said rectification work within the period prescribed therefore in the said notice and/or to complete the same as aforesaid as required by the said notice, the Executive Engineer get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the contractor. The contractor shall forthwith on demand pay to the Govt. the amount of such costs,

charge and expenses sustained or incurred by the Government of which the certificate of the Executive Engineer shall be final and binding on the contractor, Such costs, charges and expenses shall be deemed to be arrears of land on the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Government the same may be recovered from the contractor as arrears of land revenue. The Government shall also be entitled to deduct the same from any amount which may then be payable or which may thereafter become payable by the Government to the contractor either in respect of the said work or from the amount of security deposited retained by Government.

Contractor to supply plant, ladder, scaffolding etc.

Clause 21. The contractor shall supply at his own cost all material (except such special materials if any as may in accordance with the contract, be supplied from the.....stores), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original, altered or substituted from, and whether included in the specification or other documents forming part of the contract or referred to in the conditions or not and which may be necessary for the purpose of satisfying or complying with the requirement 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 the carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of person with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any tie and from time to time of the work or the materials, failing which the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deduced from any money due to the contractor under the contract or from his security deposit or the proceeds of sale there of the or of a sufficient portion therefore .The contractor shall provide all necessary fencing and lights required to portion the public from accidents and shall also bound to bear the expand to defense of every suit, action of other legal proceeding, that may be brought by person for injury sustained owing to neglect of the above precautions, and to pay any damages and cost which may with consent of the contractor be paid for compromising any claim by any such person.

List of machinery in contractor's possession & which they propose to use on the works should be submitted along with the tender.

Clause:-21(A) The contractor shall provide suitable scaffolds and working platforms gangways and stairways and a shall comply with the following regulations in connections therewith.

- a) Suitable scaffolds shall be provided for workmen for all works the can not be safely done from a ladder or y other means.
- b) A scaffold shall not be constructed taken down or substantially altered except

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- i) Under the supervision of a competent send responsible persons: and
- ii) as far as possible buy competent workers processing adequate experience in this kind of work
- c) All scaffolds and appliances connected there with and ladders shall.
 - i) Be of sound material
 - ii) Be of adequate strength having regard to the loads and strains to which they will be subjected, and
 - iii) Be maintained improper condition.
- d) Scaffolds shall be so constructed that no part thereof can be displaced inconsequence of normal use.
- e) Scaffolds shall not be over-loaded-and s for as practicable the load shall be evenly disrupted.

Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffold.

Scaffold shall be periodically inspected by the competent person.

Before allowing a scaffold to be used by his workmen the contractor shall, whether the scaffold has been erected by is workmen or not, take steps to insure that it complies fully with the regulations here-in specified.

Working platform, gangways stairways shall.

- i) Be so constructed that no part there of can sag unduly of unequally.
- ii) Be so constructed and maintained having regarded to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping and
- iii) Be kept free from any unnecessary construction.
- f) He case of working platform, gangways, working places and stairways at height exceeding 3 meters.
 - i) Every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
 - ii) Every working platform and gangway shall have adequate width and.
 - iii) Every working platform, gangway, working places and stairway shall be suitably fenced.

Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of materials be provided with suitable means to percent the fall of persons or materials.

When person are employed on roof where there is a danger of falling from a height exceeding 3 meters suitable precautions shall be taken to percent the fall of persons or materials.

Suitable precautions shall be taken to percent persons being struck by articles which might fall from scaffold or other working places.

Safe means of access shall be proceed to all working platforms and other working places.

The contractor(s) will have to make payment to the laborers as per minimum wages Act.

Cause 21B:- The contractor shall comply with the following regulations as regards the testing application to be used by him:-

- a) Hosting machine and rankle including their attachments, anchorages and support shall
 - i) Be If good mechanical construction, sound material and adequate strength and free form patent defect.

And

- ii) Be kept in good repair and in good working order.
- b) Every reputed in heisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
- c) Hoisting machine and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in posited at intervals to be prescribed by the Government.
- d) Every chain, ring, hook shackle swivel and pulley block used in hoisting or lowering materials or as means of suspension shall be periodically examined.
- e) Every crane driver or hoisting appliance operator shall be properly qualified.
- f) No person who is below the age of---- years shall be in control of any hoisting machine, including any scaffold which, or give signals to the operator.
- g) In the case of every hoisting machine and of every chain, ring, hook swivel pulley block used in hosting or lowering or as means of suspension the safe working load shall be as curtained by adequate means.
- h) In the case of hosting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.
- i) Every hosting machine and all gear referred to in proceeding regulation shall be plainly marked with the safe working load.
- j) No part of any hosting machine or of any gear referred to in regulation (g) above shall be loaded beyond the safe working load except from the purpose of testing.
- k) Motors gearing transmissions, electric wiring and other dangerous part or hosting appliances shall e provided with such means as will reduces to minimum and the risk of the accidental descent of the loads.
- l) Hoisting appliances shall be provided with such means as will reduce to minimum and the risk of the accidental descent of the load.
- m) Adequate precaution shall be taken to reduce to a minimum the risk of any part of a suspended load.

Pleasure for prevention of tire.

Clause22.:- The contractor shall not set fire to any standing jungle, trees brushwood or grass without a written permit from the Executive Engineer. When such permit is given and also in al cases when destroying cut or dug up trees, brushwood grass etc. by fire; the contractor shall take the necessary measure to percent such fire spreading to or otherwise damaging surrounding property. The contractor shall make his own arrangements for finking water for the labor employed by him.

Liability of contractor for any damage done in or outside work side.

Clause23:- Compensation for all damages done intentionally or unintentionally by contractor's labor whether in or enwound the limits of Government property including any damage caused nay the spreading of fire mentioned in clause 22 shall be estimated the engineer-in charge subject to the decision of the Superintending Engineer on compensation on demand failing which, the same will be recovered from the contractor as damages in the manner prescribed in clause 1 or deducted by the Engineer-in-charge from any sums that may be due or become due from Government to contractor under this contract or otherwise.

The contractor shall near the expenses of defending ay action or other legal proceeding that ay be brought by any persons for injury sustained by him owing to neglect of precautions to percent the spread of fire and he shall pay any damages and cost that may bane awardees by the court on consequence.

Employment of female labour.

Clause:-24.:- The employment of female labors on works in neighbor-hood of soldiers' barracks should be avoided as far as possible.

Work on Sunday.

Clause25:- No work shall e dine on a Sunday without the sanction in writing of the Engineer-in-charge.

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Development Department, Superintending Engineer/ Chief Engineer is not frivolous and that there is some substance in the claim of the contractor as would merit a detailed examined and decision by the standing committee shall put up to the standing committee at Government level for suitable decision.

(Vide P.W. Circle No. CAT-1086-CR-110/Bldg. 2 Dt.7-5-86)

Clause 31:- The contractor shall obtain from the departmental store, all stores and articles of European or American manufacture which may be required for the work, or any part thereof or in making up any articles required therefore or in connection there-with unless he has obtained permission in writing from the Engineer-in-charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor by the, Engineer-in-charge will be debited to the contractor in his account at the rates shown in the schedule, in form A attached to the contract and if they are not entered in the said schedule, they shall be debited to him at cost price which for the purpose of this contract shall include the cost of carriage and other expenses, whatsoever which shall have been incurred in obtaining delivery of the same at the stores aforesaid.

To be obtained from the Government.

Lump sums in estimates.

Clause 32:-When the estimate on which a tender is made includes lumps sums in respect of parts of the work the contractor shall be entitled to payment in respect of the items of work involve or the part of the work in question at the same rates as are payable under this contract for each item, or if the part of the work in question is not in the opinion of the Engineer-in-charge capable of measurement, 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 provision of this clause.

Actions where no specifications.

Clause 33:- In the case of any class of work for which there is no such specification as is mentioned in rule 1 such work shall be carried out in accordance with the divisional specification and in the event of there being no divisional specification, then in such code the work shall be carried out in all respects in accordance with all instructions and requirements of the Engineer-in-charge.

Definition of work.

Clause 34:- The expression 'works' or work where used in these conditions shall unless there be something in the subject of context repugnant to such construction, be construed to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original altered substituted or additional.

Clause 35 :- The percentage referred to in the tender shall be deducted from/ added to the gross amount of the bill before deducting the value of an amount issued.

Contractor's percentage whether applied to net or gross amount of bill. Refunded of quarry fees and royalties.

Clause 36 :- All quarry fees, royalties, octopi dues and ground rent for stacking materials, of any should be paid by the contractor, who will, however, be entitled to a refund of such of the charges as per permissible under rules, on obtaining a certificate from the Engineer-in-charge that the materials were required for use on Govt. work.

Clause 37 :-The contractor shall be responsible for and shall pay any compensation to his workmen payable under the workman's compensation Act 1923 (VIII of 1923) (hereinafter called the side Act) for injuries caused to the workmen. If such compensation is Act on behalf of the contractor, it shall be recoverable by Government from the contractor under sub-section (2) of the said section, such compensation shall be recovered in the manner laid down in clause I above.

Compensation under workmen's compensation etc.

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Clause 37(a):- The contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident if such expenses are incurred by Government the same shall be recoverable from the contractor forthwith and be deducted without prejudice to any other remedy of Govt. from any amount due or that may become due to the contractor.

Clause 37 (B) :- The contractor shall provide all necessary personal safety equipment and first aid apparatus available for the persons employed on the site and shall maintain the same in condition suitable for immediate use at any time and shall comply with following regulation in connection therewith.

- a) The workers shall be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
- b) When work is carried on in proximity to any place there is a rash or drawing all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.
- c) Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

Clause 37 (C):- The contractor shall duly comply with the provisions of the Apprentices Act 1961 (Ill of 1961) the rules made there under and the orders that may be issued from time to time under the act the site rules and on his failure or neglect to do so he shall be subject to all the liabilities and penalties and penalties provided by the said Act and said rules.

Clause 38 (1):-Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as, subject to any special provision contained in the specifications prescribing a different percentage of permissible variation in the quantity of the item does not exceed the tender quantity by more than 25 percent and so long as the value of the excess quantity beyond this limit at the rate of the item specified in the tender is not more than Rs.5000/-

2) The contractor shall if ordered in writing by the Engineer to do so, also carry out any quantities in excess of the limit mentioned above in sub clause (i) hereof on the same conditions as and in accordance with their specifications in the tender and at the rates (i) derived from the rates entered in the current schedule of rates and in the absence of such rates (ii) at the rate prevailing in the market. The said rates being increased or decreased as the case may be by the percentage which the total tendered amount bears to the estimated cost of the work as put to tender based upon the current schedule of rates applicable for the year in which the tender were invited (for the purpose of operation of this clause this cost shall be worked out from the SOR prevailing at the time of acceptance of the tender for ----- Rs. -----).

3) Claims arising out of reduction in the tendered quantity of any item beyond 25% will be governed by the provision of clause 15 only when the amount of such reduction beyond 25 percent at the rate of the item specified in the tender is more than Rs.5000/- (The Clause is not applicable to extra items)

Claim of quantities entered in the tender or estimates.

Clause 39:-The contractor shall employ any famine, convict or other labor of a particular kind or class if ordered in writing to do so by the Engineer in-charge.

Employment of famine labour etc.

Clause 40:- No Compassion shall be allowed for any delay caused in the starting of the work on account of accusation of land or on the case of clearances works on account of any delay in accounting & sanction of estimates.

Clause 41:- No compensation shall be allowed for any delay in the execution of the work on account of water, standing in borrows pits or compartments. The rates are inclusive for hard or cracked soil. Excavation in mud, soil, water standing in borrow pits and no claim for an extra rate shall be entertained unless of otherwise expressly specified.

Entering upon of commencing any portion of work.

Clause 42:- The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of the Engineer-in-charge or of the subordinate in charge of the work. Failing such authority the contractor shall have no claim to claim to ask for measurements of or payments for work.

Minimum age of persons employed the employment of donkeys and for other animals and the payment of fair wages.

Clause 43:-

- i) No contractor shall employ any person who is under the age of 14 years.
- ii) No contractor shall employ /any donkeys or other animals with breeching of string or thin rope. The breeching must be at least three inches wide and should be of tape (Newer).
- iii) No animal suffering from sores, lameness or emaciation or which is immature shall be employed on the work.
- iv) The engineer –in-charge or his Agent is authorized to remove from the work any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by Government for any delay caused in the completion of the work by cash removal.
- v) The contractor shall pay fair and reasonable wages to the workmen employed by him, in the contract undertaken by him. In the event of any dispute arising between the contractor and his workmen on the grounds that the wages paid are not fair & reasonable, the dispute shall be referred without delay to the Executive Engineer who shall decide the same. The decision of the Executive Engineer shall be conclusive and binding on the contractor but such decision shall not in any way affect the conditions in the contract regarding the payment to be made by Government at the sanctioned tender rates.
- vi) Contractor shall provide drinking water facilities to the workers similar ammeters shall be provide the workers engaged on large work in urban areas.
- vii) Contractor to take precaution against accidents which takes place on account labor using loose garments while working near machinery.

Clause 44:- Payment of contractors shall be made by Cheque drawn on any treasury within the decision convenient to them proceeds the amount exceeds Rs. 10 Amounts not exceeding Rs. 10 will be paid in cash.

Method of payment. Acceptance of conditions compulsory before tendering the work. Employment of scarcity labour.

Clause 45:- Any contractor who does not accept these conditions shall not be allowed to tender for works.

Clause 46:- If Government declares a states of scarcity or famine to exist in any village situated within 10 miles of the work, the contractor shall employ upon such parts of the work, as are suitable for unskilled labor, any person certified to him by the Executive Engineer or by any person to whom the Executive Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such person wages not below the minimum which government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the

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Executive Engineer whose decision shall be final & binding on the contractor.

Clause 47:- The price quoted by the contractors shall not in any case exceed the control price, if any fixed by Govt. or reasonable price which it is permissible for him to charge a private purchaser for the same class and description, the controlled price of price permissible under Hoarding and profiteering Ordinances, 1948 as amended from time to time if the price quoted exceeds the controlled price or the permissible under Hoarding and Profiteering Prevention Ordinance, the contractor will specifically mention this fact in his tender along with the reasons for quoting such higher prices.

The purchaser at his discretion will in such case exercise the right of revising the price at any stage so to conform with the controlled price on the permissible under the hoarding and profiteering presentation ordinance, this discretion will be exercised without prejudice to any other action that may be taken against the contractor.

Clause 48 :- The tendered rates shall be inclusive of all taxes, rates and cases and shall also be inclusive of the tax livable in respect of works contract under the provision of the Maharashtra sales tax on transfer of property in good involved in the execution of works contract Act, 1985 (Maharashtra Act XIX of 1985).

Maharashtra Act XIX of 1985, clause regarding turnover tax vide P.W.D. circle No.CAT/1086/C R-330 building-2 Dt. 10th June 1987.

Clause 49:- In case of materials that may remain surplus with the contractor from those issued for the work contracted from the date of ascertainment of the materials and surplus will be taken as the date of sale for the purpose of sales tax will be recovered on such sale.

Clause 50:- The contractor shall employ at least 80 percent of the total number of unskilled labors to be employed by him on the said work from out of the persons ordinarily residing in the district in which site of the said work is located.

not available, the contractor shall in the first instance employ such number of persons as is available and thereafter may with previous permission in writing of the Executive Engineer-in charge- of the said work, obtain the rest of the requirement of unskilled labour from outside district.

Clause 50A:- The contractor shall employ the unskilled labour to be employed by him on the work only from locally available labour and shall give preference to those persons enrolled under **Maharashtra Government Employment and Self Employment Department's Scheme.**

Provided, however that if the required unskilled labour are not available locally, the contractor shall in the first instance employ such number of person as is available and thereafter may with previous permission, in writing of the Executive Engineer-in-Charge of the said work, obtain the rest of requirement of unskilled the labour from outside the above scheme.

Clause 51:- Wages to be paid to the skilled and unskilled laborers engaged by the contractor.

The contractor shall pay the labors skilled and unskilled according to the wages prescribed by the minimum wages Act of 1948 applicable to the area in which the work of the contract is located.

The contractor shall comply with the provision of the apprentices Act 1961 and the rules and orders issued the under from time to time if he fails to do so his failure will be a breach of the contract and the

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superintending Engineer, may in his discretion, cancel the contract the contractor shall also be liable for any pecuniary loss arising on account of any violation by him of the provision of Act. The contractor shall pay the labors skilled and unskilled according to wages prescribed by minimum wages Act applicable to the area in which the work lies.

Clause 52:- All amounts whatsoever which the contractor is liable to pay to the Government in connection with the execution of the work including the amount payable in respect of (i) materials and or stores supplied/ issued hereunder by the Government to the contractor (ii) here charges in respect of heavy plant, machinery and equipment given on hire by the Government to the contractor for execution by him of the work and / or on which advanced of the land revenue and the Government may without prejudice to any other rights and remedies of the Government recover the same from the contractor as arrears of revenue.

*P.W. Department
No. CAT/1284
(120)/building-2
dated 14-08-85.*

Clause 53:- The contractor shall duly comply with all the provisions of the contract labor (Regulation and Abolition) Act, 1970 (37 of 1970) and the Maharashtra contract labor Regulation and Abolition rules 1971 as amended from time to time and all other relevant statutes and statutory provisions concerning payment of wages particularly to workman employed by the contractor and working on the site of the work. In particular the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under the Maharashtra contract labor (Regulation and Abolition) Rules 1971 If the contractor fails or neglects to pay wages at the said rates or makes short payments and the Government makes such payment of wages in full or part thereof less paid by the contractor as the case may be the amount so paid by the Government to such workers shall be deemed to be arrears of land revenue and the Government shall be entitled to recover the same as such from the contractor or deduct same from the amount payable by the Government to the contractor hereunder or from the amount payable by the Government to the contractor hereunder or from any other amounts payable to him by the Government.

Clause 54:- The contractor shall engage apprentices such as bricks layer, carpenters, wiremen, plumber as well as black-smith as recommended by the state Apprenticeship deviser Director of Technical Education, Dhobi Talav, Bombay-1 on the construction work.
Government of Maharashtra Education Department No. TSA-5170/T-56689 date 7-7-72

Clause 55:- Government of Maharashtra P.W.D.(Resolution N0. CAT1086/CR-243/K/Building-2 Bombay-32 date 1-9-87)

- A) The anti-malaria and other health measures shall be as directed by the joint director (Malaria and Filarial) of Health Services, Pune.
- B) Contractor shall see that mosquitozenic conditions are not created so as to keep vector population to minimum level.
- C) Contractor shall carry out anti-malaria measures in the are as per guidelines prescribed under national malaria Eradication Programmed and as directed by the joint director (M&F) of Health services, Pune.
- D) In case of default in carrying out prescribed anti-malaria measures resulting increase in malaria incidence, contractor shall be liable to pay Government on anti-malaria measures to control the situation in addition to fine.
- E) Relation with public authorities: the contractor shall make sufficient arrangements for draining away the salvage water as well as water coming from the bathing and washing

places and shall dispose of this water in such a way as not to cause any musicale. He shall also keep the premise clean by employing sufficient of sweepers.

The contractor shall comply with all rules, regulations, bye laws and direction given from time to time by any local or public authority connection with this work and shall pay fees or charges which are livable on him without any extra cost to Government.

SCHEDULE "A"

Schedule showing (approximately) the materials to be supplied from the ----- stores for work contract to be executed and preliminary and ancillary works and the rates at which they are to be charge for.

Particulars	Quantity	Rates at which the material will be charged to the contractor				Place of Delivery
		Unit	In Figure		In Words	
			Rs.	Ps.		
----- Nil -----						

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CHAPTER 8
ADDITIONAL GENERAL CONDITIONS AND SPECIFICATION

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1. ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

Shall apply as additional specifications and conditions, unless otherwise already provided for contradictorily elsewhere in this contract.

2. INDEMNITY:-

The contractor shall indemnify the Government against all actions, suits claims and demands brought or made against him in respect of anything done or committed to be done by the Contractor in execution of or in connection with the work of this contract and against any loss or damage to the Government in consequence of any action or suit being brought against the Contractor for anything done or committed to be done in the execution of the work of this contract.

3. DEFINITIONS:-

Unless excluded by or repugnant to the context.

- a) The expression "Government" as used in the tender papers shall mean the Public works irrigation and Housing Department of the Government of Maharashtra.
- b) The expression "Chief Engineer" as used anywhere in the tender papers shall mean an Chief Engineer or the Government of Maharashtra who is designated as such.
- c) The expression "Superintending Engineer-in-charge" as used in the tender papers shall mean officer of Superintending Engineer's rank (by whatever designation he may be known) under whose control the work lies for the time being.
- d) The expression "Superintending Engineer-in-charge" as used in the tender papers shall mean the executive Engineer-in-charge of the work for time being.
- e) The expression "Contract" as used in the tender papers shall mean the successful tendered whose tender has been accepted, and who has been authorized to proceed with the work.
- f) The expression "contract" as used in tender papers shall mean the deed to contract together with its original accompaniment and those latter incorporated in it by mutual consent.
- g) The expression "Plant" as used in the tender papers shall mean every temporary and necessary of considered necessary by the Engineer to executed, construct, complete and maintain the works and used in altered, modified, substituted & additional work ordered in time and the manner herein provided and all temporary materials and special and other articles of appliances of every sort, kind and description whatsoever intended or used thereof.
- h) "Drawings" shall mean the drawings referred to in the specifications and any modifications of such drawings approved in writing by Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer.
- i) "Engineer's representative" shall mean as assistant of the Engineer notified in writing to the contractor by the Engineer.

- j) 'Provisional sum' of Provisional lump sum shall mean lump sum including by Government in tender documents and shall represent the estimated value of work for which details are not available at the time of issue of tender
- k) 'Provisional items shall mean items for which approximate quantities have been included in. the tender documents
- l) The 'site' shall mean the lands and / or other places, on under-in or through which the work is to be executed under the contract including any other lands or places, which any be allotted by Government or used for the purpose of contract
- m) The 'Work' shall mean the works to be executed in accordance with the Contract or part (s) there of as the case may be and shall include all extra or additional, altered or submitted works as required for performance of the Contract
- n) The "Contract sum" shall mean the sum for which the tender is accepted
- o) The accepting "Authority" shall mean the sum for which the tender is accepted.
- p) The "Day" shall mean a day 24 hours from midnight to midnight irrespective of the number of hours worked in any-day in the weeks
- q) "Temporary work" shall mean all temporary works of every kind required in or about the execution, completion, or maintenance of the works.
- r) "Urgent works" shall mean any measure which, in the opinion of the Engineer-in-charge become necessary during the progress of the works to the works to obviate any risk or accident of failure or which become necessary for security of the work or the persons working, thereon.

Where the context sp requires, words importing the singular only also include the plural and viewer

Heading and marginal notes, if any, to the general conditions shall not be deemed to form part there of or taken into consideration in the interpretation or construction there of the contract.

Wherever there is mention of "Schedule of rates" of the Division or simply D.S.R. in this tender it will be taken to mean as the Schedule of rate of Divisional in whose jurisdiction the work lies."

4. ERRORS OMISSION AND DISCREPANCIES:-

- a) In case of errors, omissions and for disagreement between written and scaled dimensions on the drawing or between drawing and specification etc. the following order of preference shall apply.
 - i) Between actual scaled and written dimensions or descriptions on a drawing the latter shall be adopted.
 - ii) Between the written or shown description or dimension in the drawing and corresponding one in the specifications, the latter shall apply.
 - iii) Between the quantities shown in schedule of quantities and those arrived at from the drawings the latter shall be preferred.
 - iv) Between the written description of the item in the schedule of quantities and the detailed description in the specifications of the same items, the later shall be adopted.

- b) In case of discrepancy between percentage rate quoted in figures and words, the lower of the two will be considered for acceptance of tender.
- c) In all case of omissions and or doubts or discrepancies in the dimensions or description of any item of specification, a reference shall be made to the Executive Engineer
- d) The special provision in detailed specification and wording of any item shall again precedence over corresponding contradictory provision (if any) in the Standard Specifications of Public Works Department Hand Book where reference to such specification is given without reproducing the details in contract.

5. AGENT AND WORK ORDER BOOK:-

The contractor shall himself manage the work or engage an authorized all time agent on the work capable of managing and guiding the work and understanding the specifications and contract conditions. A qualified and experience. Engineer-in charge considers this is essential for the work & so directs contractors. He will take orders as will be given by the Executive Engineer or his representative and shall be responsible for carrying them out. This agent shall not be his representative and shall be responsible for carrying them out. This agent shall not be changed without prior intimation to the Executive Engineer and his representative on the work site the contractor shall supply to the Engineer the details of all supervisory and other staff employed by the Contractor and notify changes when made and satisfy the Engineer regarding the quantity and sufficiency of the staff, thus employed. The Engineer will have the unquestionable right to ask for changes in the quality and numbers of Contractor's supervisory staff and to order removal from work of any of such staff. The Contractor shall comply with such staff and to order removal from work of any of such staff. The Contractor shall comply with such orders and effect replacements to the satisfaction of the Engineer.

6. SETTING OUT:-

i) ROAD WORKS:-

6.1 The contractor shall establish working bench marks in the area soon after taking possession of the site. The reference Bench mark for the area shall be as indicated in the Contract Documents. The working bench marks/shall be at the rate of four per KM and also at or near all drainage structures, over bridge and underpasses. The working bench marks / levels should be got approved from the Engineer Checks must be made on these bench marks every month and adjustments if any got agreed with the Engineer and recorded. An up to date record of all bench marks including approved adjustment, if any shall be maintained by the contractor and also a copy supplied to the Engineer for his record.

6.2 The lines and levels of formation, side sloes, drainage, carriageways and shoulders shall be carefully set out and frequently checked, care being taken to ensure that correct gradients and cross sections are everywhere obtained.

6.3 In order to facilitate the setting out of the works, the centre line of the carriageway or highway must be accurately established by the contractor and approved by the Engineer. It must then be accurately referenced, in a manner satisfactory to the Engineer, every 50m intervals in plain and rolling terrain and 20m intervals in hilly terrain and in all curve points as directed by the Engineer, with marker pegs and change boards set in or near the fence-line and a schedule of reference dimension shall be prepared and supplied by the contractor to the Engineer. These markers shall be maintained until the work reach finished formation level and are accepted by the Engineer.

6.4 On construction reaching the formation level stage the centre line shall again be set out by the contractor and when approved by the Engineer shall be accurately referenced in a manner satisfactory to the Engineer by marker by marker pegs set at the outer limits of the formation.

6.5 No reference pegs or marks shall be moved or withdrawn without the approval of the Engineer and no earthwork or structural work shall be commenced until the centre line has been referenced.

6.6 The contractor will be the sole responsible party for safeguarding all survey movements, bench marks, beacons etc. The Engineer will provide the contractor with data necessary for the setting out of the centre line. All dimensions and levels shown on the drawings or mentioned in documents forming part of issued under the contract shall be verified by the contractor on the site and he shall immediately inform the Engineer of any apparent errors or discrepancies in such dimensions or levels. The contractor shall after or in connection with the setting out of the centre line, survey the terrain along the road and shall submit to Engineer for his approval a profile along the road centerline and cross sections at intervals as required by the Engineer.

6.7 After obtaining approval of the Engineer, work on earthwork can commence and the profile and cross sections shall form the basis for measurement and payment. The contractor is responsible for checking that all the basic traverse points are in place at the commencement of the contract and if any are missing, or appear to have been disturbed, the contractor shall make arrangements to re-establish these points.

A' survivor Files* containing the necessary data will be made available for this purpose, if in the opinion of the Engineer, design modifications of the centre line or grade are advisable, the Engineer will issue detailed instructions to the contractor and the contractor shall perform the modifications in the field, as required and modify the ground levels on the cross sections accordingly as many times as required. There will be no separate payment for any survey work performed by the contractor. The cost of these services shall be considered as being included in the cost of the items of work in the bill of Quantities.

6.8 The work of setting out shall be deemed to be part of general works preparatory to the execution of work and no separate payment shall be made for the same.

ii) SETTING OUT FOR (BRIDGE WORKS) :-

Immediately on receipt of the work order, the contractor shall at his own expense clean the site and take up a provisional and final setting out and lining out of the work under the supervision of his responsible representative and shall provide necessary material, labour, tools, instruments etc. required for the same.

One tentative abutment location will be indicated by Engineer-in-charge and the center line or the bridge shall be defined by him. The contractor will then have to fix up the location of the adjusted. Once the final location of abutments is so finalized, it wills the contractor's responsibility to line out and locate the remaining foundations.

The contractor shall be responsible for true and proper setting out of the works and for the correctness of the positions, level dimensions and arrangements of all parts of works and for providing all necessary instruments appliances and labours in connection there with at his own cost. Officers may assist the contractor in proper setting out. Government instruments may be allowed to be used for setting out of work, for any errors arise in regard to levels or dimensions or alignment of any part of the work, rectification thereof on being required to do so, will be carried out by the contractor at his cost, unless such errors are based on incorrect data, supplied in writing by the Engineer or his authorized representative in which case the expensed of the rectification shall be refunded by Government.

The checking of any setting out or checking of levels by the Engineer or his authorized representative shall not in any way relieve the contractor of his responsibility for the correctness there of the contractor shall carefully protect and preserve all bench marks site rails, pegs and other things used in setting out of works.

RESPONSIBILITIES FOR LEVEL AND ALIGNMENT:-

The contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment the levels and correctness of every part of the work and shall rectify effectual any errors or imperfections there in, such rectifications shall be carried out by the contractor at his own cost, when instruction are issued to the effect by Engineer-in-charge.

7. LEVELING INSTRUMENTS:-

If measurements of items of the work are based on volumetric measurement calculated from levels taken before and after construction of the item, a large number of leveling staves, tapes etc. in required numbers may cause delay in measurements and the work. The contractor will have therefore to keep sufficient number of these readily available at site.

8. AUTHORITIES OF THE-ENGINEER IN CHARGE'S REPRESENTATIVE:-

The duties of the representative of the Engineer-in-charge are to watch and supervise the work and to test and examine any material to be used or workmanship employed in connection with the works.

The Engineer-in-charge may from time to time, in writing delegate to his representative any powers and authorities vested in the Engineer-in-charge and shall furnish to the contractor a copy of all such delegations of powers and authorities. Any written instruction of approval given by the representative of the Engineer-in-charge to the contractor within the terms of such delegations (but not otherwise) shall bind the contractor and the department as though it had been given by the Engineer-in-charge, provide always as follow:

Failure of the representative of the Engineer-in-charge to disapprove any work or materials shall not prejudice the power of the Engineer-in-charge thereafter to disapprove such work or materials and so order the putting down, removal or breaking up thereof.

9. CO-ORDINATION:-

When several agencies for different sub-works of the project are to work simultaneously on the project site, there must be full co-ordination and co-operation between different contractors to ensure timely completion of the whole Project smoothly. The scheduled dates for completion specified in each contract shall therefore, be strictly adhered to Each contractor any make his independent arrangement for water, power, housing etc. if they so desire On the other hand the contractors are at liberty to mutual agreement in this behalf and make joint arrangements with the approval of the Engineer, No single Contractor shall take or cause to be taken any steps or action that may cause, disruptions discontent, or disturbance of work, Labour or arrangement etc. of other Contractor in the Project localities. Any action by any contractor which the Engineer in his unquestioned discretion may consider as infringement of the above code, would the Engineer in his unquestioned discretion may consider as infringement of the above code, would be considered as a breach of the Conditions and shall be dealt with as such.

In case of any dispute, disagreement between the contractors the Engineer's decision regarding the co-ordination, co-operation and facilities to be provided by any the contractors shall be final and binding on the contractors concerned and such a decision or decisions shall not vitiate any contract nor abortive the contractor (s) of his / their obligation under the contract not consider for the grant for any claim or compensation.

10. QUARRIES :-

10.1 No. Government quarries are available / with this department. The contractor(s) shall have to arrange the same he / themselves.

10.2 The quarrying operations snail is. Carried out by the Contractor with proper equipment such as compressors, jack-hammers drill bits, explosives etc. and sufficient number of workmen shall be employed so as to get required out turn.

10.3 The contractor shall carry out the works in the quarries in conformity with all the rules and regulations already laid down or that may be laid down from time to time by Govt. Any cost incurred by Governments due to non compliance of any rules or regulations or due to damages by the Contractor shall be the responsibility of the Contractor.

The Engineer-in-charge or his representative shall be give full facilities by the Contractor for inspection at all times of the working of the quarry records, maintained the stocks of the explosives and detonators etc., so as to enable him to check that the working records and storage are all in accordance with the relevant rules. The Engineer-in-charge or his representative shall at any time be allowed to inspect the work buildings and equipment at the quarters.

10.4 The Contractor shall maintain at his own cost the books, registers etc. required to be maintain under the relevant rules and regulations and as directed by the Engineer-in-charge These books shall be open for inspection at all times by the Engineer-in-charge or his representative and the Contractor shall furnish the copies or extracts or books or registers as and when required.

10.5 All quarrying operations shall be carried out by the contractor in organized and expeditions manner, systematically and with proper planning. The Contractor shall engage linked blaster and adopt electric blasting and/or any other approved method which would ensure complete safely to all the men engaged in the quarry and its surrounding. The Contractor shall himself provide suitable magazines and arrange to procure and store explosives etc. as required under the rules at his own cost. The designs and the location of the magazine shall be got approved in advance from the Chief inspector of Explosives and the rules and regulations in this connection as laid down by the Chief Inspector of Explosive from time to time shall be strictly adhered to by the Contractor. It is generally experienced that it takes time to obtain the necessary license for blasting and license for storage of materials from the concerned authorities the contractor must therefore take timely advance action for procuring all such licensor so that the work progress may not be hampered.

10.6 The approached to the quarrying place from the existing public roads shall have to be arranged by the Contractor at his own cost ant the approaches shall be maintained by the Contractor at his own cost till the work is over.

10.7 The quarrying operations shall be carried out by the Contractor to the entire satisfaction of the Engineer-in-charge and the development of the quarry shall be made efficiency so as to avoid stage of stones. Only such stones are of the required quality shall be used on the work. Any stone which is in the opinion of the Engineer-in-charge, not in accordance with the specification or of required quality will be register at any time at the quarry or at the site of work. The rejected stones shall not be used on the work and such rejected materials shall be removed to the place shown at the Contractor's cost.

10.8 Since all stones quarried from Government quarry (it made available) by the Contractor including the excavated over burden are the property of the Govt. No stones or earth shall be supplied by the Contractor to any other agencies or works are allowed to be taken away for any other works. All such surplus quarried materials not required for work under this contract shall be the property of the Govt. and shall be handed at the spots indicated by the Engineer-in-charge. The Contractor will be entitled to the refund or royalty if any paid by him for such quantity handed over to Govt. for which necessary certificate will

be issued by Executive Engineer as per usual procedure. If however, the Government does not require such surplus material, the contractor may be allowed to dispose off or use such materials elsewhere with prior written permission of the Engineer-in-charge. Leaving off a quarry face or opening of a new quarry face shall be done only on the approval of the Engineer-in-charge.

10.9 Quarrying permission will have to be directly obtained by the Contractor, from the Collector of the District concerned for which purpose the department will render necessary assistance. All quarry fees, royalty charges, octroi duties, ground rent for stacking materials etc. if any to be paid, shall be paid directly by the Contractor as per rules in force. The Contractor will however be entitled to a refund of part of such charges as are admissible under rules as maintained elsewhere in this contract, after obtaining a certificate from the Engineer-in-charge that material was required for use on Government works.

10.10 The Contractor will be permitted to erect at his own risk and cost at the quarry site if suitable vacant space in government area is available for the purpose, his own structures for stores, offices, etc. at places approved by the Engineer-in-charge. On completion of the work the contractor shall remove all the structure erected by him and restore the site to its original condition.

10.11 The contractor shall not use any land in the quarry either for cultivation or for any other purpose except, that required for breaking or stacking or transporting stones.

11. TREASURE-TROVE :-

In the event of discovery by the contractor or his employees, during the progress of the work of any treasure, fossils, minerals or any other articles of value or interest, the contractor shall give immediate intimation thereof to the Engineer and forthwith hand over to the Engineer such treasure or things which shall be the property of Government.

12. EXPLOSIVE :-

The contractor shall at his own expense construct and maintain proper magazines if such are required for the storage of explosives for use in connection with the work and such magazine being situated, constructed and maintained in accordance with the Government Rules applicable in the behalf. The contractor shall at his own expenses obtain such license of licenses may be necessary for storing and using explosives. Notwithstanding that the location etc. or storage of explosives are approved by the Engineer, the Government, shall not be incurring any responsibility whatever in connection with storage and use of explosives on the site or any accident or occurrence whatsoever in connection, there with, all operations in or for which explosive are employed being at the risk of the contractor and upon his sole responsibility and the contractor hereby gives to Government an absolute indemnity in respect thereof.

13. DAMAGE BY FLOODS OR ACCIDENTS :-

The contractor shall take all precaution against damage by floods or like or from accident etc. No compensation will be allowed to the contractor shall be liable to make good at his cost any plant or material belonging to the Government lost or damaged by flood or from any other case which is in his charge.

14. POLICE PROTECTION :-

For the Special Protection of camp and of the Contractor work, the Dep't. Will help the contractor as far as possible to arrange for such protection with concerned authorities, if so required by the Contractor in writing. The full cost of such protection shall be borne by the contractor.

15. TRAFFIC REGULATION FOR ROAD WORKS :-

15.1 Unless separately provided for in the contract. The Contractor shall have to make all necessary arrangement for regulating traffic, day & night during the period of construction to the entire satisfaction of the Engineer. This includes the construction and maintenance to diversions if necessary. The contractor shall have to provide necessary caution boards, barricades, flags, lights and watchmen etc. so as to comply with the latest Motor Vehicles rules and regulation and for traffic safely and he shall be responsible for all claims from accidents which may arise due to his negligence whether in, regulating the traffic or in stacking materials on roads, or due to any other reasons.

15.2 The Contractor shall at all times carry out the work on the road in the manner creating least in interference to the flow of traffic, while consistence with the satisfactory execution of the same, for all works involving S/Rs to the existing road, the contractor shall, in accordance with the directives of the Engineer-in-charge, provide and maintain, during the execution of work a passage for traffic, either along or part of the existing carriageway under S/R or along a temporary diversion constructed close to the road.

15.3 TRAFFIC REGULATION FOR BRIDGES AND C.D. WORKS :-

It is to clearly understood that whatever work carried out by the Contractor for construction of diversion road including earthwork, W.B.M. bituminous surface dressing R.C.C. pipe drains etc. will be paid for only once if due to flow of traffic, due to floods or do to any other cause, this diversion road and for the R.C.C. drain gets damaged it shall be repaired and maintained by the contractor in good condition till completion of the whole work at his own expenses.

16. SUPERVISION AND INSPECTION OF WORKS AND QUALITY CONTROL :-

16.1 SUPERVISION :-

The contractor shall either himself supervise the execution of the works or shall appoint the competent agent approved by the Engineer-in-charge to act on his behalf. If in the opinion of the Engineer-in-charge, the contractor has himself no sufficient knowledge and experience of receiving instruction or cannot give his full attention to the works, the contractor shall at his own expenses employ as his accredited agent a qualified Engineer approved by the Engineer-in-charge orders given to the contractor's agent shall be considered to have the force as if there had been given to the contractor himself, if the contractor fails to appoint suitable agent as directed by Engineer-in-charge, the Engineer-in-charge shall have full power to suspend the execution of the work until such date a suitable agent is appointed and the contractor shall be responsible for the delay so caused

to the works and the contractor shall be entitled for any compensation on this behalf.

16.2 INSPECTION :-

The contractor shall inform the Engineer-in-charge in writing when any portion of the work is ready for inspection giving him sufficient notice to enable him to inspect the same without effecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the Engineer-in-charge shall have certified in writing to the effect / approval of materials or workmanship or approval of part of the work during the progress of execution shall not bind the Engineer-in-charge or in any way affect him even to reject the work which is alleged to be completed and to suspend the issue of his certificate of completion. Until such alteration and modification or reconstruction have been effected to his satisfaction.

The contractor shall provide at his cost necessary ladders and such arrangements as to provide necessary facilities and assistance for proper inspection of all parts of the work at his own cost.

17. INITIAL MEASUREMENT FOR RECORD :-

Where, for proper measurement of the work. It is necessary to have an initial set of levels or other measurements taken, the same as recorded in the authorized field book or measurement book of Government by the Engineer or his authorized representative will be signed by the contractor who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the contractor to get such levels etc. recorded before starting the work will render him liable to accept the decision of the Engineer as to the basis of taking measurement. Difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the Executive Engineer. The record of such measurements on the Government side will be signed by the contractor and he will be entitled to have a true copy of the same made at his cost.

18. SAMPLES AND TESTING OF MATERIAL :-

i) All materials to be issued on work shall be got approved in advance from the Engineer-in-charge and shall pass the test and / or analysis required by him which will be :-

- a) As specified in the specification for the items concerned and / or
- b) I.S.I. Specifications (whichever and wherever applicable) or
- c) Such recognized specifications acceptable to Engineer-in-charge as equivalent there to or in absence of such authorized specifications.
- d) Such requirement test and / or analysis as may be specified by the Engineer-in-charge in order of precedence given above.

ii) The contractor shall at his risk and cost make all arrangements & / or shall provide for all such facilities as the Engineer-in-charge may require for collecting preparing required number of samples for tests or for analysis at such time & to such place or places as may be directed by the Engineer and bear all charges & cost of testing. Such samples shall also be deposited with the Engineer-in-charge.

iv) The constrictor shall no be eligible for any claim or compensation either arising out of any delay in the work of due to any corrective measures required to be taken on account of and as a result of testing of the materials.

v) The contractor or his authorized representative will be allowed to remain present in the departmental laboratory white testing samples furnished by him. However the results o all the tests carried out in the departmental laboratory in the presence or absence of the contractor or his authorized representative will be binding on the contractor.

vi) The contractor shall at his own set up laboratory to carry out the routine tests of materials which are to be used on the work. The test will have to be carried out either in his field laboratory or in an approved laboratory. In case tests are carried out in field laboratory, at least 50% tests should be carried out in nearest quality control laboratory of the Department.

vii) In case of materials procured by the contractor, testing as required by the codes and specifications shall be arranged by him at his own cost. Testing shall be done in the presence of authorized representative of the Engineer-in-charge at the nearest approved laboratory. If additional tasting other than as required by specification is ordered, the testing charges, shall be borne by the Department, if the test results are satisfactory and by the contractor if the same are not satisfactory.

viii) In case of materials supplied by the Government, if the contractor demands certain testing, the charges there of shall be paid by the contractor if the testing results are satisfactory and by the department if the same are not satisfactory.

19) CHANGES OF CEMENT CONTENT ETC. :-

The tendered rates for any item, involving the use of cement, shall apply to the quantity of cement specified for the mix for the item in the specification. If for any reasons except those required for compensating the deficiencies, in the components, the cement content and properties are altered by the Engineer (Engineer-in-charge) at any time or from tie to time the tendered rates for that properties item and quantity or quantities, shall be duly enhanced or reduced only to account for the addition or reduction in cost of the cement content from that laid down in the specification at the rates specified in the schedule 'A' of the contract pause 10% to cover all other incidental charges whatsoever likewise if any additives compounds water proofing materials etc. are ordered by Engineer to be added to the mortar or concrete, no extra rate shall be payable for this change which shall be carried out as per directions of the Engineer-in-charge, provided cost of such additives etc. is borne by Government or these are supplied free of cost contractor at site by Government.

20.MEDICAL AND SANITARY ARRANGEMENTS TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR:-

- a) The contractor shall provide an adequate supply of portable water for the use of labours on work and in camps.

- b) The contractor shall construct trench or semi permanent latrines for the use of the laborers, Separate latrines shall be provided for men and women.
- c) The contractor shall build sufficient number of huts on a suitable plot of land for use of the Labourers according to the following specifications.
 - 1. Huts of Bamboos and grass may be constructed
 - 2. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with trees, shall be chosen wherever it is available. The neighborhood of tank, jungle, grass or woods should be particularly avoided Camps should not be established close to large cuttings of earth work.
 - 3. The lines of huts shall have open spaces of at least ten yards between rows. When a good natural site cannot be procured, particular attention should be given to the drainage.
 - 4. There should be no over crowding. Floor space at the rate of 30 Sq Ft. per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.
 - 5. The contractor must find his own land and if he wants Government land, he should apply for it and pay assessment for it, if made available by Government.
 - 6. The contractor shall construct a sufficient number of bathing places. Washing places should also be provided for the purpose of washing clothes.
 - 7. The contractor shall make sufficient arrangements for draining away the surface and sewage water as well as water from the bathing and washing places and shall dispose off this waste water in such way as not to cause any nuisance.
- d) The contractor shall engage a Medical Officer with a traveling dispensary for a camp containing 5. Or more persons if there is no Govt. or other private dispensary situated within 8 kilometers from the camp. In case of emergency the contractor shall arrange at his cost for transport for quick medical help to his sick worker.
- e) The contractor shall provide the necessary staff for effecting a satisfactory drainage system & cleanliness of the camp to the satisfaction of the Engineer. At least one sweeper per 200 persons should be engaged.
- f) The assistant Director of Public Health shall be consulted before opening a labour camp and his instruction on matters such as water supply, sanitary conveniences, the camp site accommodation and food supply shall be followed by the contractor,
- g) The contractors shall make arrangements for all anti-malaria – measures to be provided for the Labour employed on the work. The anti-malaria measure shall be provided as directed by the Assistant Director of Public Health.

21. SAFELY CODE :-

Suitable Scaffolds shall be provided for workmen for all works that cannot safely be done from the ground from solid construction except such short period work as can be done safely from ladders. When 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 handholds shall be provided on the ladder shall be given an inclination not steeper than 1 to 4 (1 horizontal and 4 vertical).

Scaffolding of staging more than 3.25m above the ground of floor, swing or suspended from an overhead support or erected with stationary supports, shall have a guard rail properly attached bolted, braced and otherwise assured at least 1m high above the floor a platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such openings as may be necessary the delivery of materials, such scaffolding or staging so fastened as to prevent it from swaying from the building or structure

Working platform, gangways, and stairways shall be so constructed that they do not sag unduly or is more than 3.25m above ground level or floor level. If shall be closely boarded, have adequate width and suitable fenced as described in 2 above.

Safe means of access shall be provided to all working platform and other working places Every ladder shall be securely fixed. No portable single ladder shall be over 9m in length, width between side rails in a rung ladder shall is no case be less than 30cms for ladders up to and including 3m length for longer ladders this width shall be increased at least 6 mm for each additional 30 Cms. of length. Uniform step spacing shall not exceed 30 Cms.

Adequate precaution shall be taken to prevent danger from electrical equipments. No materials on any of the site shall be stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provided all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defense or every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precaution and to pay damages and costs which may be awarded in any such suit action or proceedings to any such person or which may with the consent of the contactor, to be paid to compromise any claim by any such person.

EXCAVATION AND TRENCHING :-

All trenches, 1.5 meters or more in depth, shall at all times be supplied with at least one ladder for each 30 meters in length or fraction thereof, Ladder shall be extended from bottom of trench to at least 1 meter above surface of the ground, sides of a trench which is 1.5 meters or more in depth shall be stepped back to give suitable slope, or security held by timber branching. So as to avoid the danger of sides collapsing Excavated materials shall not be placed with 1.3 meters of edge of trench or half of depth or trench whichever is more. Cutting shall be done from top to bottom under no circumstances shall undermining or undercutting be done.

DEMOLITION :-

Before any demolition work is commenced and also during the process of the work,

- a) All roads and open areas adjacent to the site shall either be closed or suitably protected.
- b) No electrical cable or apparatus which is liable to be a source of danger or a cable or apparatus used by operator shall remain electrically charged.
- c) All practical steps shall be taken to prevent danger to person employed from risk of fire or explosion or hooding. No floor, roof or other part of building shall be so overloaded with debris of materials as to render it unsafe.

All necessary personal safety equipments as considered adequate by the Engineer-in-charge are available for use of persons employed on the site and maintained in condition suitable for immediate use and contractor shall take adequate step to ensure proper use of equipment by those concerned.

- a) Workers employed on mixing asphaltic materials cement and lime mortars concrete shall be provided with protective footwear and protective goggles.
- b) Those engaged in handling any materials which is injurious to eyes shall be provided with protective goggles.
- c) Those engaged in welding works shall be provided with welder's protective eye shields.
- d) Stone breakers shall be provided with protection, goggles and protective clothing and seated at sufficiently safe intervals.
- e) When workers are employed in sewers and manholes which are in use, the contractor shall ensure that manhole covers are opened and manholes are ventilated at least for an hour before workers are allowed to get into them. Manholes opened shall be cordoned off with suitable railing and provided with warnings signals or boards to prevent accident to public.
- f) The contractor shall not employ, men below the age of 18 and women on the work of painting with products containing lead in any form wherever man above the age of 18 are employed on the work of lead painting the following precautions shall be taken.
 - i) No Paint containing lead or lead product shall be used by used except in the form of paste or readymade paint.
 - ii) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and of adequate strength and free from potent defects.
 - iii) Overalls shall be supplied the contractor to workman and adequate facilities shall be, provided to enable working painters to wash during and on cessation of work.
- g) When work is done near and place where there is risk of drowning all necessary equipment shall be provide and kept ready for use and all necessary steps taken for prompt rescue of all injuries likely to be sustained during the course the course of the work.

- a) These shall be of good mechanical construction, sound materials and adequate strength and free from potent defects and shall be kept in good repair and in good working order.
- ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and of adequate strength and free from potent defects.
- b) Every crane driver pre-hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffolding.
- c) In case of every hoisting machine and of every chain ring hook shackle ownel and pulley block used in hosting of lowering or as means of suspension safe working load shall be ascertained by adequate means. Every hoisting machines and all gear referred to above shall be plainly marked with safe working loads.

In case of hoisting machine having a variable safe working load, each safe working load and conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

- d) In case of departmental machines safe working load shall be notified by the Engineer-in-charge. As regards contractor machines the contractor shall notify safe working load of each machine to the Engineer-in-charge whenever, he brings it to site of work and get it verified by the Engineer-in-charge.

Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with such means as will reduce to the minimum the risk of accidental descent of load. Adequate precaution shall 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 material wearing approved such as gloves, sleeves and coats as may be necessary shall be provided. Workers shall not wear any rings, watches any, carry keys of their materials which are good conductors of electricity.

All Scaffolds, ladders, and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at near places of work.

These safety provisions shall be brought to the notice of all concerned display on a notice board at prominent place at the work spot Persons responsible ensuring compliance with the safety code shall be named than by the contractor.

- i) To ensure effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the contractor shall be open to inspection by the Engineer-in-charge of his representatives and the inspecting officers.

ii) Failure to comply with the provision hereunder shall make the contractor liable to pay to the Department as penalty an amount not exceeding Rs. 50/- for each default and decision of the Engineer-in-charge shall be final and binding.

Notwithstanding the above conditions 1 to 14 the contractor is not exempted from the operation of the order Act or rules in force.

22. PAYMENTS :-

a) Running Bills:-

Two payments in a month will be granted by the Engineer-in-charge if the progress is satisfactory. Contractor should submit bills to the Engineer-in-charge in appropriate forms.

b) Final Bills:-

The contractor should submit final bill within one month after completion of work and the same will be paid within 3 months if it is in order. Disputed items and claims, if any, shall be excluded from the final bill and settled separately after later on.

23. HANDING OVER OF WORK :-

All the working and materials before finally taken over by Government will be the entire liability of the contractor for guarding. Maintaining and making good any damages of any magnitude. Interim payments made for such work will not alter this position. The handing over by the Contractor and taking over by the Executive Engineer or his authorized representative will be always in writing of which copies will go to the Executive Engineer or his authorized representative and the contractor, it is however understood that before taking over such work Government will not put into regular use as distinct from casual or incidental one, except as specifically mentioned elsewhere in this contract or as mutually agreed to.

24. CLAIMS :-

Bills for extra work or for any claim shall be paid separately apart from the interim bill for the main work. The payment of bills for the main work shall not be withheld for want of decision on the extra or claims not covered in the appendices.

Claims for extra work shall be registered with 30 days of occurrence of the event. However, bills for these claims including supporting data / details may be submitted subsequently.

25. Procurement of R.C.C. Pipe :-

The R.C.C. pipes required for the work shall be procured from the MSSIDC only. The payment toward providing and fixing NP2 / NP3 / NP4 Pipes will be released only after the contractor submits the bills of MSSIDC to authenticate that the pipes have been purchased from the MSSIDC. No payment towards the item of providing & laying of the pipe will be released in absence of the submission of requisite documents.

ANNEXURE-I**QUALITY CONTROL TESTS & THEIR FREQUENCIES**

Sr.No.	Material	Test	Frequency of Testing	Remarks
1	Sand	i) Fineness Modules	At the beginning & if there is change in source	
2	Metal	i) Crushing Value	One test per 200 Cum or part hereof	P.W.D. hand book I.S.2386 Part -IV
		ii) Impact Value		
		iii) Abrasion Value		
		iv) Water Absorption		
		v) Flakiness Index		
		vi) Stripping value		
		vii) Gradation		
3	Cement Concrete	Compressive Strength	Upto 5 Cum – 1 set	M.O.R.T.& H. Specification. 1716 (Fourth revision 01)
			6-15 – 2 sets	
			16-30 – 3 sets	
			31-50 – 4 sets	
			51 & Above – 4 sets + 1 additional 50 Cum or part thereof	
4	Cement	i) Compressive Strength	One test for each consignment of 50 MT (1000 bags) or part thereof.	I.S. 8112 - 1989
		ii) Initial Setting Time		
		iii) Final Setting Time		
		iv) Specific Gravity		
		v) Soundness		
		vi) Fineness		
5	Steel	i) Weight per meter	One test for every 5.0 M.T. or part thereof for each diameter.	I.S. 432 IS 1786-1985
		ii) Ultimate Tensile Stress		
		iii) Yield Stress		
		iv) Elongation		
6	Granular Sub-Base	i) Gradation	One test per 200 cum	MORT&H specification Table 900-3 (Fourth Revision 2001)
		ii) Atterberg limits	One test per 200 cum	
		iii) Moisture content prior to compaction	One test per 250 cum	
		iv) Density and compacted layer	One test per 500 Sqm	
7	Water Bound Macadam	i) Aggregate impact value	One test per 200 cum	MORT&H specification Table 900-3 (Fourth Revision 2001)
		ii) Gradation	One test per 100 cum	
		iii) Flakiness index & Elongation index.	One test per 200 cum	
		iv) Atterberg limits of binding material.	One test per 25 cum of binding material.	
		v) Atterberg limits of portion of aggregates passing 425 Micron.	One test per 100 cum of aggregate	
8	Prime coat/tack coat/ for spray	i) Quality of Binder	No.of samples per lot and tests as per I.S. 73 I.S. 217 and I.S. 8887 as applicable.	MORT&H specification Table 900.4 (Fourth Revision 2001)

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		ii) Binder Temperature	At regular close intervals,	
		iii) Rate of spread of binder.	1 test per 500 sqm. and not less than two tests per day.	
9	Seal coat/ Surface Dressing	i) Quality of Binder	Same as mentioned under Sr.No.8	MORT&H specification Table 900.4 (Fourth Revision 2001)
		ii) Impact Value/Los Angle's Abrasion value	1 test per 50 cum of aggregate.	
		iii) Flakiness & Elongation Index	1 test per 50 cum.	
		iv) Stripping value of aggregate (Immersion tray test)	Initially 1 set of 3 representative specimen for each source of supply subsequently when warranted by change in the quality of aggregates.	
		v) Water Absorption		
		vi) Water sensitivity of mix (if required)		
		vii) Gradation.	1 test per 25 cum	
		viii) Soundness.	Initially one determination by each method for each source of supply, then as warranted by change in the quality of aggregate.	
		ix) Temp. of binder	At regular close intervals,	
		x) Rate of spread of materials	1 test per 500 Sqm. and not less than 2 tests per day.	
		xi) Percentage of fractured faces	When gravel is used. One test per 50 cum.,	
10	Open graded premix surfacing/ Close graded premix surfacing	i) Quality of Binder	Same as per Sr.No.8	MORT&H specification Table 900.4 (Fourth Revision 2001)
		ii) Impact Value/Los Angle's Abrasion value	Same as per Sr.No.9	
		iii) Flakiness & Elongation Index	Same as per Sr.No.9	
		iv) Stripping value	Same as per Sr.No.9	
		v) Water Absorption	Same as per Sr.No.9	
		vi) Water sensitivity of mix	Same as per Sr.No.9	
		vii) Gradation.	Same as per Sr.No.9	
		viii) Soundness.	Same as per Sr.No.9	
		ix) Temp. of binder	At regular close intervals,	

		x) Binder content	1 test per 500 Sqm. and not less than 2 tests per day.	
		xi) Rate of spread of materials	Regular control through checks of layer thickness.	
		xi) Percentage of fractured faces	Same as per Sr.No.9	
11	Bituminous Macadam/BBM	i) Quality of Binder	Same as per Sr.No.8	MORT&H specification Table 900.4. (Fourth revision 2001) Fo BBM-Annexure-A on page 102.
		ii) Impact/ Abrasion value	Same as per Sr.No.9	
		iii) Flakiness/ Elongation Index	Same as per Sr.No.9	
		iv) Stripping value	Same as per Sr.No.9	
		v) Water sensitivity of mix	Same as per Sr.No.9	
		vi) Water absorption	Same as per Sr.No.9	
		vii) Soundness	Same as per Sr.No.9	
		viii) Percentage of fractural faces	Same as per Sr.No.9	
		ix) Gradation	2 tests per day per plant both on individual constituents and mixed aggregates from dryer.	
		x) Binder content & aggrt. Grading	Periodic subject to minimum of 2 tests per day plant.	
		xi) Control of temp of binder & aggregates for mixing & of the mix at the time of laying & rolling.	At regular close intervals.	
		xii) Density of compacted layer	Regular control through check of layer thickness. As directed by the Engineer-in-charge.	
12	Bitumen (Pure)	i) Penetration ii) Ductility iii) Softening point iv) Flash/fire point v) Specific gravity	2 test per lot as per I.S. 73	

ANNEXURE-II

SPECIFICATION FOR BITUMINOUS BOUND MACADAM

Item: Providing and constructing 75 mm/ 50 mm thick bituminous bound macadam (BBM) road surface including all materials, preparing the existing road surface, spreading 40 mm stone metal lexicess 30% crusher broken metal + 70% hand broken (by breaking rubber obtained, by blasting) heating and spraying the bitumen 60/70@ 2 kg/sqm, spacing 12 mm size chips, compacting with static roller.

1) General :

The work consists of supply of materials and labour required for providing and laying bituminous bound macadam surface for compacted thickness of 75mm/50mm. The item includes preparing the existing road surface to receive the bituminous bound macadam course i.e. picking the existing W.B.M. surface or application of tack coat on existing B.T. surface spreading of 40mm size metal layer in required thickness with compaction with power roller, heating and spraying bitumen with required thickness with compaction with power roller heating and spraying bitumen with sprayer etc. spreading key aggregates, 12 mm. chips, and final compaction with power roller, etc. complete and finishing in accordance with the requirement of and in close conformity with grades, lines, cross section and thickness as per approved drawings etc. complete.

2) Diversions:

Temporary diversions shall be constructed and maintained by the contractor at his own cost. Diversions shall be watered if dust is likely to blow on to the road being Bituminised.

3) Materials :

(A) Aggregates: The aggregates for providing B.B.M. surface shall comply with specification Nos. Rd.41 for 40 mm and 12 mm size metal, and shall normally comply with the following regarding to size and quality of aggregate and grade and quantities of bitumen.

Sr. No.	Description	Rate of application for 100 sqmt.			
		75 mm		50 mm	
		On asphalt surface	On WBM Surface	On asphalt surface	On WBM Surface
a)	40 mm size hand broken metal	9.00 Cum	9.00 Cum	6.00 Cum	6.00 Cum
b)	12mm size chips	1.80 Cum	1.80 Cum	1.20 Cum	1.20 Cum
c)	Bitumen for grouting I.S. penetration or S.65 with (60/70 grade) penetration	200 Kg	200 Kg	175 Kg.	175 Kg.

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d)	Tack coat for existing Bitumen surface with 60/70 bitumen	50 Kg	-	50 Kg	-
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Note : 70% Hand broken metal and 30% crusher broken metal of total quantity for 40 mm size metal shall be used.

(B) Bitumen :

The bitumen shall be paving bitumen of suitable penetration grade within the range S-35 to S-65 i.e. 60/70 as per Indian Standards Specifications for "Paving Bitumen" IS 73-1992.

4) Preparation of Base:

Any pot holes in the existing bituminous road surface and broken edges shall be patched well and the surface shall be brought to correct level and camber with additional metal and bitumen as required which will be paid separately. Before starting the work the bituminous surface shall be swept clean of all the dirt, mud cakes, animal droppings & other loose foreign material.

If so required by the Engineer, the contractor shall keep the side width & nearby diversion watered to prevent dust from blowing over the surface to be bituminous. Existing water bound macadam surface shall be picked for and surface loosened for a dept of 2.5 cm and the picked surface shall be brought approximately to the correct camber and section Edge line shall be correctly marked by dog belling the surface to form a continuous the notch.

There shall always be sufficient length of prepared surface ahead of the bituminous surfacing operations as directed by the Engineer to keep these operations continuous.

5) Tack Coat on bitumen surface:

Applying tack coat for existing B.T. surface only at the rate of 50 kg/100 m² as per specification No. Rd-47.3.3.

6) Picking of existing W.B.M. Surface :

Picking of existing W.B.M. surface for receiving bituminous bound macadam as per Rd. 33.

7) Spreading and Compaction

7.1 Spreading of 40 mm metal (70% Hand broken & 30% crusher broken):- 40 mm metal shall be spreaded evenly at the specified rate of 9 cubic metres/6 cubic metre per 100 squares of area so as to form a layer over the width of road with correct camber/super elevation as required. Any foreign matter, organic matter, dust, grass etc. shall be removed immediately. The sections shall be checked with camber board and straight edge batten etc. Any irregularities shall be made good by adding aggregates in case of depressions and removing aggregates from high spots.

- 7.2 Compaction of 40mm size metal :-** The surface of 40 mm metal layer after bringing to necessary grades and sections shall be rolled with the use of 8 to 10 tonnes power roller. Roller shall commence from the edges and progress toward the centre longitudinally except on super elevation portion it shall progress from the lower to upper edges parallel to the centre line of pavement. Whether the roller has passed over the whole area and high spot or depressions which become apparent shall be corrected by removing or adding aggregates. The rolling shall then continued till the entire surface has been rolled to desired compaction such that there is no crushing of aggregates and all roller marks have been eliminated. Each pass of roller shall uniformly overlap not less than one third of the track made in the preceding pass.
- 8) Application of Bitumen :**
Bitumen of I.S. grade supplied for the work shall be heated to temperature of 177 Celsius to 191 Celsius (350 F to 375 F) in a bitumen boiler and temperature shall be maintained at the time of actual application. The hot bitumen shall be applied through a pressure on the road surface uniformly at the rate of 200 kg. Per 100 sqm. The road surface shall be divided into suitable rectangles marked by chalk so as to ensure correct rate of application of the bitumen.
- 9) Key Aggregates:**
On Completion of bitumen application, 12 mm size key aggregates shall be spread immediately at a uniform rate of 1.8 cubic meters/ 1.2 cubic meters per 100 sqm. of area when entire surface in hot condition Brooms shall be used to ensure even distribution of key aggregates.
- 10) Final Compaction:**
Immediately after spraying of bitumen and spreading of key aggregates, the surface shall be rolled with a power roller to obtained full compaction and to force the blindage of key aggregates in to the interstice of the course aggregate. The rolling shall continue till the asphalt surface hardens and key aggregates stop moving under power roller.
- 11) Surface Finish and Quality Control:**

THE SURFACE FINISH SHALL CONFORM TO REQUIREMENTS OF CLAUSE 902 OF SPECIFICATION FOR ROADS AND BRIDGES BY MINISTRY OF SURFACE TRANSPORT (COPY ENCLOSED) QUALITY CONTROL TEST AND THEIR FREQUENCIES SHALL BE AS PER TABLE BELOW.

Sr.No.	Test	Frequency
1	Quality of binder	Two samples per lot to be subjected to all or some test as directed by the Engineer.
2	Aggregate Impact Value	One test per 200 cubic meter of aggregate.
3	Flankiness Index and Elongation Index	One test per 200 cubic meter of aggregate.
4	Stripping value	Initially one set of three representative specimen for each source of supply subsequently when warranted by changes in the quality of aggregate.

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5	Water absorption of aggregates	Initially one set of three representative specimen for each source of supply subsequently when warranted by changes in the quality of aggregate.
6	Aggregate grading	One test per 100 cubic meter of aggregate
7	Temperature of binder at application	At regular close intervals.
8	Rate of spreading for binder.	One test per 500 square meter of area.

12) Item to Include:

I) DIVERSIONS UNLESS SEPARATELY PROVIDED IN THE TENDER

- ii) Preparing the road surface.
- iii) Applying tack coat on existing B.T. or picking the existing W.B.M. surface.
- iv) Supplying spreading and compaction of 40 mm and 12 mm size aggregate.
- v) Supplying, heating and spraying of bitumen.
- vi) Supplying and spreading and compaction of 12 mm size chips (By Power roller.
- vii) All labour, materials, including bitumen and aggregates used of tools, plants and equipment for completing the item satisfactorily.

13) Mode of Measurement and Payment.

The contract rate shall be for 1.00 Sqm. The measurements shall be for the width of the road as executed, limiting it to the width specified or as ordered by the Engineer and the length measured along the centerline. The measurement dimensions shall be recorded correct upto two places of decimals of a meter and the area worked out correct upto one place of decimal of a Sqm.

ANNEXURE-III

SPECIFICATIONS FOR TRAFFIC SAFETY MEASURES DURING WIDENING OF ROADS WHERE TRAFFIC CAN BE PASSED OVER PART WIDTH

**Providing Traffic Safety Measures on Road during Widening of roads
Comprising of Traffic Sign Boards and devices as per detailed design, drawing,
specification and as directed by Engineer-in-charge.**

SPECIFICATIONS :-

The item includes providing traffic safety arrangements required for traffic control near has stretch of road where widening work is being taken up, before actual start of widening work of road. The contractor will have to provide the traffic safety arrangements as per the detailed drawing. The traffic safety arrangements will have to be got approved from the Engineer-in-charge by the Contractor before taking any construction activities for Widening of works.

The Engineer-in-charge shall get himself satisfied about the traffic safety arrangement provided on the work site before allowing contractor to dismantle the existing structure and a certificate to get effect shall be recorded in the Measurement Book.

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- A) The Sign No. 1 "SPEED LIMIT (20)" shall be placed at a distance of 120 m away from the point where the transition of carriageway begins. The Sign Board shall be of size 60 cm dia. Having white background and red border and the numericals shall be in black colour as per IRC 67-1977. Distance between Sign No.2 shall be minimum 20 m.
- B) The Sign No.2: "NARROW ROAD AHEAD" shall be placed at a distance of 80 m away from the point where transition of carriageway starts. The Sign board shall be of an equilateral triangle of size 90 cm. having white background. Retro reflective border in Red colour and non reflective symbol of black colour as per IRC: 67-1977.
- C) The sign No.3: The sign board indicating "MAN AT WORK" shall be placed at a distance of 40 m. away from the point where the transition of carriageway starts.. The sign board shall be of an equilateral triangle of size 90 cm. having white backgrounds. Retro reflective border of Red colour and non reflective symbol of black colour as per IRC 67-1977.
- D) The sign No. 4: The board displaying the message "GO SLOW-WORK IN PROGRESS" shall be placed near point of transition of carriageway. The sign board shall be of size 1.0m x 1.0m having red background and message in white colour.**
- F) Retro Reflective Strong Inviolable Stand Type Barrier painted black and having white Retro Reflective Strips for closer of traffic shall be placed to cover the entire width of carriageway including shoulder as per drawing. The Barricades shall not be removed unless permission is given by the responsible officer of the rank not less than Sectional Engineer. The Barricade shall have two plates of size 1.30 x 0.20m painted black and shall have white Retro Reflective Strips and mounted on angle iron stand of 1.0 m height.
- G) Yellow light flasher shall be kept lit from sunset to sunrise, 2 nos. along with white painted line and 2 Nos. at barriers on both sides as indicated in the drawing.
- H) Informatory sign board indicating name or work, estimated cost, completion period defect liability period. Name of contractor with telephone no. Name of Engineer with telephone no. shall provided between sign board no.4 and the barricade. The Sign board shall be having green back ground and white messages retro reflective as per IRC :67-1977.
- J) This is incidental to work (being Safety Measures) and no payment will be made on account of this

कंत्राटदारने शासकीय विमानिधीपाशी कंत्राट कामाचा विमा उतरवावा म्हणून करारनाम्यात समाविष्ट करावयाच्या अटीचे प्रारूप

कंत्राटदारावर सोपविलेल्या कंत्राटकामाचा विमा कंत्राटदारने विमा संचालनालय , महाराष्ट्रराज्य गृह निर्माण भवन २६४ , १ ला मजला , कलानार बांद्रा पुर्व मुंबई ४०००५१दुरध्वनी संचालनालय २६५९१७८५/२६५९०४०३ कार्यालय — २६५९०६०९/२६५९०७४६ फॅक्स क्र. ०२२-२६५९०२४६१ या कार्यालयापाशी कंत्राटदाराच्या संपुर्ण मेस व कंत्राटाच्या पुर्ण कालावधीचा सदर कार्यालयाकडील अटी व शर्तीनुसार विमा उतरविणे आवश्यक आहे. तसेच कंत्राटी काम पुर्ण करण्यासाठी नियुक्त करण्यात येत असलेल्या सर्व कामगारांचा विमा कामगार नुकसान भरपाई विमापत्राखाली , अटी व शर्तीनुसार उतरविणे अनिवार्य आहे. सदरचा विमा उतरविणेच्या खालील तीन पध्दती असुन विमा संचालनालयाच्या व्यतिरिक्त अन्य विमा कंपन्यांकडुन घेतलेली विमापत्रे स्विकारली जाणार नाही.

१. कंत्राटी कामाचा कार्यरंभ आदेश घेतांना निविदा रक्कमेच्या १ टक्के रक्कम विमाहप्ता अथवा किमान विमाहप्ता रु २२६/- यापैकी जी जास्त असेल ती रक्कम धनाकर्षाच्या स्वरुपात या कार्यालयास सादर केल्यास धनाकर्षाच्या तारखेपासुन कंत्राटदाराच्या कामाची व कामगारांची जोखीम विमापत्राच्या अटी व शर्तीनुसार उपरोक्त कार्यालयाकडुन स्विकारली जाईल.
२. ज्या कंत्राटदारांना तातडीने विमापत्राची आवश्यकता असले व रक्कम रु १०. लाखा पेक्षा जास्त निविदा रक्कम असले त्यांना उपरोक्त कार्यालयाकडुन त्वरीत विमापत्र देण्यात येईल.
३. ज्या कंत्राटदारांना कंत्राटी कामाचा विमा उपरोक्त कार्यालया कडुन घेणार नाहीत तसेच या कार्यालयास विमा पॉलीसी घेतल्याचा पुरावा सादर करणार नाहीत किंवा जे कंत्राटदार कार्यरंभ आदेश घेताना कंत्राटी कामाच्या १ टक्के रक्कमेचा धनाकर्ष (डी डी) देऊन विमापत्र घेणार नाहीत. अशा कंत्राटदारांच्या प्रथम देयकातुन कंत्राटी कामाच्या निविदा रक्कमेच्या १ टक्के रक्कम विमाहप्ता अथवा किमान विमा हप्ता रक्कम रु २२६/- यापैकी जी जास्त असेल ती वसुल करण्यात येईल व विमापत्राच्या अटी व शर्तीनुसार उपरोक्त कार्यालयाकडुन कार्यवाही करण्यात येईल.

प्रतिज्ञापत्र

कंत्राटदारांनी विमा संचालनालय महाराष्ट्र राज्य गृहनिर्माण भवन २६४ पहिला मजला कलानार बांद्रा पुर्व मुंबई ४०००५१ या कार्यालयाकडून कंत्राटदाराच्या संपुर्ण रक्कमेचा व कंत्राटाच्या पुर्ण कालावधीचा तसेच कंत्राटी काम पुर्ण करण्यासाठी नियुक्त करण्यात येत असलेल्या सर्व कामगारांचा विमा करारनाम्यानुसार भरपाई विमापत्राखाली उपरोक्त तीन पध्दतीपैकी एका पध्दतीचा अवलंब करुन अटी व शर्तीनुसार उतरविणे आवश्यक असलेचे माझ्या अथवा एजन्सीच्या निदर्शनास आणुन दिलेले आहे.

तरी संबधीत कंत्राटी कामाचा व कामगारांच्या विमापत्र उतरविणेबाबत उपरोक्त तीनही पध्दतीचे अवलोकन केले असता , कार्यारंभ आदेश घेतेवेळेस मी अथवा आमाची एजन्सी सदर कामाच्या रक्कमेच्या १ टक्के रक्कम विमाहप्ता अथवा किमान विमाहप्ता रक्कम रु २२६/- यापैकी जी जास्त असेल ती धनाकर्ष स्वरुपात देऊशकत नाही त्यामुळे पध्दत क्र ३ नुसारच कंत्राटी कामाच्या निविदा रक्कमेच्या १ टक्के रक्कम विमाहप्ता अथवा किमान विमाहप्ता रक्कम रु २२६/- यापैकी जी जास्त असेल ती प्रथम देयकातुन वसुल करण्यात यावी.