MUMBAI METRO RAIL CORPORATION LIMITED



Civil Maintenance Contract for MMRCL's New Office Building situated in E Block, Bandra Kurla Complex, Bandra (E), Mumbai

Sep 2018

NIT Ref. No. : MMRC/Planning/New Office/CivilMC/NIT/18/03/2nd Call

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NOTICE INVITING TENDER

The Deputy General Manager (Civil), MMRCL, Mumbai on behalf of MD, MMRCL invites online percentage rate bids from eligible contractors having registration in appropriate class of CPWD, M.E.S., Railway, MCGM, State P.W.D. and other Govt. Departments dealing with building works for the following work:-

NIT No. : MMRC/Planning/New Office/CivilMC/NIT/18/03/2nd Call

Name of Work : Civil Maintenance Contract for MMRCL's New Office Building

situated in E Block, Bandra Kurla Complex, Bandra (E), Mumbai.

Estimated Cost : ₹73,09,983/-Earnest money : ₹73,099/-

Period of completion : 24 Months (including monsoon)

Bid Form shall be available online from 10/09/2018. Last date of submission of bid up to 05.00 pm on 19/09/2018.

Corrigendum/Addendum if any will be issued only on following websites.

The bid forms and other details can be obtained from the website www.tender wizard.com/MMRC

Press notice is also available on www.mmrcl.com

प्रबंध निवेशक, मुंबई मेट्रो रेल कॉर्पोरेशन लिमिटेड की ओर से, उप महाप्रबंधक (सिविल), निम्नलिखित कार्य के लिए के.लो.नि.वि. (सी.पी.डब्ल्यू.डी), एमईएस, रेलवे, एमसीजीएम, राज्य पीडब्ल्यूडी और अन्य सरकारी विभागों के भवन निर्माण कार्य सम्बंधित उचित वर्ग में अनुमोदित तथा पात्र ठेकेदारों से ई-निविदा आमंत्रित की जाती है |

एनआईटी क्र. : MMRC/Planning/New Office/CivilMC/NIT/18/03/2nd Call

कार्य का नाम : एमएमआरसीएल का बांद्रा कुर्ला कॉम्प्लेक्स स्थित नए कार्यालय भवन के लिए सिविल अनुरक्षण संविदा।

अनुमानित लागत : 73,09,983/-बयाना राशी : 73,099/-

कार्य पूरे होने की अवधि : 24 महीने (वर्षा ऋतु सहित)

बोली प्रपत्र १०/०९/२०१८ से ऑनलाइन उपलब्ध होंगे |

निविदा जमा करने का अंतिम तिथि व समय १९/०९/२०१८ अपराहन ०५ बजे तक।

शुद्धिपत्र तथा परिशिष्ट (यदि कोई) सिर्फ निम्नलिखित वेबसाइट पर प्रकाशित किया जायेगा |

बोली प्रपत्र और अन्य विवरण वेबसाइट www.tenderwizard.com/MMRC से प्राप्त किए जा सकते हैं।

प्रेस विज्ञप्ति www.mmrcl.com पर भी उपलब्ध है

व्यवस्थापकीय संचालिका मुंबई मेट्रो रेल कॉर्पोरेशन लि. यांच्या वतीने, उप महाव्यवस्थापक (स्थापत्य), खालील कामासाठी सीपीडब्ल्यूडी, एम.ई.एस., रेल्वे, एम.सी.जी.एम, सार्वजनिक बांधकाम विभाग आणि इतर शासकीय विभागांमार्फत इमारतीशी संबंधित योग्य वर्गामध्ये नोंदणी केलेल्या पात्र कंत्राटदारांकडून ऑनलाईन टक्केवारी दर निविदा आमंत्रित करीत आहेत:-

एनआईटी क्र. : MMRC/Planning/New Office/CivilMC/NIT/18/03/2nd Call

कामाचे नाव : एमएमआरसीएलच्या वांद्रे कुर्ला कॉम्प्लेक्समधील नवीन ऑफिसच्या इमारतीसाठी स्थापत्य देखभाल करार

अंदाजी किंमत : 73,09,983/-बयाणा रक्कम : 73,099/-

कार्य पूर्ण करण्याची अवधि : २४ मास (पावसाळायासहित)

निविदा १०/०९/२०१८ पासून ओनलाईन उपलब्ध होईल.

निविदा सादर करण्याची अंतिम दिनांक १९/०९/२०१८ संध्याकाळी ०५ वाजे पर्यंत शृध्दीपत्रक / परिशिष्ट (जर असल्यास) फक्त खालील वेबसाइटवर प्रकाशित होणार.

निविदा फोर्म आणि इतर तपशील वेबसाइट $\underline{www.tenderwizard.com/MMRC}$ वरून प्राप्त होईल

प्रेस नोटिस www.mmrcl.com या वेबससाईट वर उपलब्ध आहे



$\frac{INFORMATION\ AND\ INSTRUCTIONS\ TO\ BIDDERS\ FOR\ e\text{-}TENDERING\ FORMING}{PART\ OF\ BID\ DOCUMENT}$

1. The Deputy General Manager (Civil) on behalf of the Managing Director, MMRCL invites online the bids from contractors of repute in three-bid system for the following work:

S.	NIT	Name of Work and	Estimated	Earnest	Peri	Last date &	Time and
No.	No.	Location	Cost put to	Money	od	time of	date of
			bid		of	submission	opening of
					Co	of bid, EMD,	technical bid
					mpl	e-tendering	
					etio	processing	
					n	fee and other	
						documents	
1	2	3	4	5	6	7	8
	MMRC/	Civil Maintenance	₹73,09,983	₹73,099/-	24	19/09/2018	19/09/2018
	Plannin	Contract for			Mo	05.00 PM	05.30 PM
	g/New	MMRCL's New			nths		(if possible)
	Office/	Office Building			(Inc		
	CivilM C/NIT/1	situated in E Block,			ludi		
	8/03/2n	Bandra Kurla			ng		
	d Call	Complex, Bandra			Mo		
		(E), Mumbai			nso		
					on)		

The date and time of opening of financial bid shall be conveyed later to bidders qualified in technical bid.

NOTE: The tender document can be seen on website www.tenderwizard.com/MMRC or www.mmrcl.com free of cost. However, a non-refundable tender fee of ₹5,900/- (₹5,000/- Fee plus ₹900/- (GST @ 18%)) shall be payable.

- 2. Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
 - a. Should have satisfactorily completed the works as mentioned below during the <u>last</u>

 Seven years ending previous day of last date of submission of bids.
 - i. Three similar works each costing not less than ₹ 29,24,000/-

Or

two similar works each costing not less than ₹ 43,86,000/-

Or

one similar work costing not less than ₹ 58,48,000/-

Similar work shall mean works of civil maintenance contract executed under separate single work order carried out in govt. or semi govt. organizations or in Multi-National Companies or in corporate offices. The work shall include repair and maintenance of building civil works including water supply, sanitary installations, plumbing and drainage works.

b. Should have had average annual financial turnover of <u>amount not less than 100% of amount put to tender</u> during the last three years ending 31st March 2018. (Scanned copy of Certificate from CA to be uploaded)

- c. Should not have incurred any loss in more than two years during the last five years ending 31st March 2018 (Scanned copy of Profit and Loss Statement of last 5 Financial Years to be uploaded)
- d. Should have a solvency of ₹ 29,24,000/- (Scanned copy of original solvency to be uploaded as per Form B)
- e. The bidder should own constructions equipment as per list required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc., and submit the list of firms from whom he proposes to hire.
- f. The bidder's performance for each work completed in the last Seven years and in hand should be certified by an officer not below the rank of Executive Engineer or equivalent.
- 3. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- 4. Information and Instructions for bidders posted on website shall form of bid document.
- 5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.tenderwizard.com/MMRC or www.mmrcl.com.
- 6. Work shall be executed according to General Conditions of Contract for Central P.W.D.
- 7. But the bid can only be submitted after depositing Processing Fee and EMD online at tender wizard through Payment Gateway.
- 8. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website. Bidders can contact the tender wizard help desk at 7666563870, 7980042472, 8013426317.
- 9. The intending bidder must have valid class-III digital signature to submit the bid.
- 10. Contractor can upload documents in the form of JPG format and PDF format.
- 11. Bidder must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue.
- 12. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
- 13. The Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.
- 14. MMRCL reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
- 15. Evaluation Criteria: The details submitted by the bidders will be evaluated in the following manner:
 - a. The initial criteria prescribed above in 2 (a) to 2 (f) in respect of experience of similar class of works completed, bidding capacity and financial turn over etc. will first be scrutinized and the bidder's eligibility for the work be determined.
 - b. Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:

- made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document,
- ii. record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.
- 16. The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:
 - a. amend the scope and value of contract to the bidder.
 - b. Reject any or all the applications without assigning any reason.

Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

- 17. List of Documents to be scanned and uploaded within the period of bid submission:
 - a. Online Deposit Receipt for EMD and tender fee.
 - b. Registration certificate of relevant class.
 - c. Certificates of Work Experience (For completed works completion certificate issued by competent authority).
 - d. Certificate of Financial Turn Over: At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning Financial Turnover of last 3 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
 - e. Bank Solvency Certificate.
 - f. Affidavit as per provisions of clause 1.2.1 of CPWD-6.
 - g. Certificate of Registration for Goods & Services Tax.
 - h. Labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident Fund Code No.
 - i. Following Forms:
 - i. FORM A: FINANCIAL INFORMATION
 - ii. **FORM B**: FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK
 - iii. **FORM C**: DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST SEVEN YEARS ENDING LAST DAY OF APRIL 2018
 - iv. FORM D: PROJECTS UNDER EXECUTION OR AWARDED
 - v. FORM F: STRUCTURE & ORGANISATION
 - vi. **FORM G**: DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK
 - vii. **FORM H**: DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK

Note: Only the above-mentioned documents shall be part of technical bid. Any document mentioning the financial bid of the bidder for the cited work uploaded in technical bid shall be liable for rejection.

CPWD-6 - NOTICE INVITING TENDER

1	Percentage rate tenders are invited on behalf MD, MMRC from approved and
	eligible contractors having registration in appropriate class of CPWD, M.E.S.,
	BSNL, Railway, MCGM, State P.W.D. and other Govt. Departments dealing with
	building works, for the work of Civil Maintenance Contract for MMRCL's New
	Office Building situated in E Block, Bandra Kurla Complex, Bandra (E),
	<u>Mumbai</u> . The enlistment of the contractors should be valid on the last date of submission of tenders.
	In case the last date of submission of tender is extended, the enlistment of contractor
	should be valid on the original date of submission of tenders.
1.1	The work is estimated to cost ₹ 73,09,983/- including old taxes, however bidder shall
	quote percentage considering all prevailing taxes. This estimate, however, is given
	merely as a rough guide.
1.2	Intending tenderer is eligible to submit the bid provided he has definite proof from
	the appropriate authority, which shall be to the satisfaction of the competent
	authority, of having satisfactorily completed similar works of magnitude specified
	below: -
1.2.1	Three similar works each costing not less than ₹29,24,000/-
	Or
	Two similar works each costing not less than ₹ 43,86,000/-
	Or
	One similar work costing not less than ₹ 58,48,000/-
	in last 7 years ending last day of the month previous to the one in which the tenders
	are invited.
	To become eligible, the tenderer shall have to furnish an affidavit as under: -
	I/We undertake and confirm that eligible similar works(s) has/have not been got
	executed through another contractor on back to back basis. Further that, if such a
	violation comes to the notice of Department, then I/we shall be debarred for
	tendering in MMRCL in future forever. Also, if such a violation comes to the notice
	of Department before date of start of work, the Engineer-in-Charge shall be free to
	forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.
	(Scanned copy to be uploaded at the time of submission of bid).
2	Agreement shall be drawn with the successful tenderer on prescribed Form No.
	CPWD 7 which is available as a Govt. of India Publication. Tenderer shall quote his
	rates as per various terms and conditions of the said form which will form part of
	the agreement.
3	The time allowed for carrying out the work will be 24 Months from the date of start
	as defined in schedule 'F' or from the first date of handing over of the site, whichever
	is later, in accordance with the phasing, if any, indicated in the tender documents.
4	i. The site for work is available.
5	The tender document consisting of plans, specifications, the schedule of quantities
	of various types of items to be executed and the set of terms and conditions of the
	contract to be complied with and other necessary documents can be seen on website
	www.tenderwizard.com/MMRC or www.mmrcl.com free of cost. However, a non-
	www.tenderwizara.com/willing or www.miniter.com/nee or cost. However, a non-

	refundable tender fee of ₹5,900/- (₹5,000/- Fee plus ₹900/- (GST @ 18%)) shall be payable.		
6	After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.		
7	While submitting the revised bid, contractor can revise the percentage any number of times (he need not reenter rate of all the items) but before last time and date of submission of bid as notified.		
8	Earnest Money shall be paid online on the e-tender portal and the receipt generated through payment gateway shall be scanned and uploaded to the e-tendering website within the period of tender submission. Copy of Enlistment Order and certificate of work experience and other documents as specified in the tender document shall be scanned and uploaded to the e-Tendering website within the period of bid submission. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD receipt and other documents scanned and uploaded are found in order. The technical bid shall be opened at 05:30 PM on 19/09/2018 (if possible)		
9	The technical bid shall be opened at <u>05:30 PM on 19/09/2018 (if possible)</u> . The bid submitted shall become invalid if:		
	 (i) The bidder is found ineligible. (ii) The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the copy of receipt for deposition of original EMD. (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority. (iv) If a tenderer does not quote any percentage above/below on total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer. (v) If the tenderer uploads any document related to financial bid in technical bid. 		
10	The contractor whose bid is accepted will be required to furnish performance guarantee within the period specified in Schedule F. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The Contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Board including provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress) within the period specified in Schedule F.		

11	Description of Work:
	The work aims to keep, restore or improve every facility i.e. every part of a structure
	or building, its services to a currently acceptable standard and to sustain the utility
	and value of the facility.
	The objective of work is: -
	(i) To preserve building and services, in good operating and habitable condition.
	(ii) To ensure safety of the occupants or the public at large
	(iii) Where so required to Upgrade, renovate, retrofit the facilities to improved
	specifications and standards
	The work also aims at effective and economic means of keeping the building and
	services fully utilizable.
	Intending Tenderers are advised to inspect and examine the site and its surroundings
	and satisfy themselves before submitting their tenders as to the nature of the ground
	and sub-soil (so far as is practicable), the form and nature of the site, the means of
	access to the site, the accommodation they may require and in general shall
	themselves obtain all necessary information as to risks, contingencies and other
	circumstances which may influence or affect their tender. A tenderer shall be
	deemed to have full knowledge of the site whether he inspects it or not and no extra
	charge consequent on any misunderstanding or otherwise shall be allowed. The
	tenderer shall be responsible for arranging and maintaining at his own cost all
	materials, tools & plants, water, electricity access, facilities for workers and all other
	services required for executing the work unless otherwise specifically provided for
	in the contract documents. Submission of a tender by a tenderer implies that he has
	read this notice and all other contract documents and has made himself aware of the
	scope and specifications of the work to be done and of conditions and rates at which
	stores, tools and plant, etc. will be issued to him by the Government and local
	conditions and other factors having a bearing on the execution of the work.
12	Deputy General Manager (Civil) on behalf MD, MMRC does not bind itself to
12	accept the lowest or any other tender and reserves to itself the authority to reject any
	or all the tenders received without the assignment of any reason. All tenders in which
	any of the prescribed condition is not fulfilled or any condition including that of
12	conditional rebate is put forth by the tenderer shall be summarily rejected.
13	Canvassing whether directly or indirectly, in connection with tenderers is strictly
	prohibited and the tenders submitted by the contractors who resort to canvassing will
	be liable to rejection.
14	The Deputy General Manager (Civil) on behalf of MD, MMRC reserves to himself
	the right of accepting the whole or any part of the tender and the tenderer shall be
	bound to perform the same at the rate quoted.
15	The contractor shall not be permitted to tender for works in the MMRCL responsible
	for award and execution of contracts, in which his near relative is posted a Divisional
	Accountant or as an officer in any capacity between the grades of Superintending
	Engineer and Junior Engineer (both inclusive). He shall also intimate the names of
	persons who are working with him in any capacity or are subsequently employed by
	him and who are near relatives to any gazette officer in the MMRCL or in the
	Ministry of Housing and Urban Affairs. Any breach of this condition by the
	contractor would render him liable to be removed from the approved list of
	contractors of this Department.
	consists of this Department.

16	No Engineer of gazette rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in
	writing. This contract is liable to be cancelled if either the contractor or any of his
	employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender
	or engagement in the contractor's service.
17	The bid for the works shall remain open for acceptance for a period of Ninety (90)
	days from the date of opening of bids. If any bidder withdraws his bid before the
	said period or issue of letter of acceptance, whichever is earlier, or makes any
	modifications in the terms and conditions of the bid which are not acceptable to the
	department, then the Government shall, without prejudice to any other right or
	remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further
10	the bidders shall not be allowed to participate in the rebidding process of the work.
18	This notice inviting Tender shall form a part of the contract document. The
	successful tenderer/contractor, on acceptance of his tender by the Accepting
	Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
	a) The Notice Inviting Tender, all the documents including additional
	conditions, specifications and drawings, if any, forming part of the tender as
	uploaded at the time of invitation of tender and the rates quoted online at the
	time of submission of bid and acceptance thereof together with any
	correspondence leading thereto.
	b) Standard C.P.W.D. Form 7
19	In case any discrepancy is noticed between the documents as uploaded at the time
	of submission of the bid, then the bid submitted shall become invalid and the
	Government shall, without prejudice to any other right or remedy, be at liberty to
	forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be
	allowed to participate in the retendering process of the work.

MUMBAI METRO RAIL CORPORATION LIMITED (A JV-SPV of GoI & GoM)

Percentage Rate Tender & Contract for Works

Tender for the work of <u>Civil Maintenance Contract for MMRCL's New Office Building situated</u> in E Block, Bandra Kurla Complex, Bandra (E), <u>Mumbai</u>

(To be uploaded by <u>05:00 PM</u> on <u>19/09/2018</u> at www.tenderwizard.com/MMRC)

TENDER

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

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

We agree to keep the tender open for Ninety (90) days from the date of opening of technical bid and not to make any modification in its terms and conditions.

Receipt of Earnest Money for a sum of ₹ 73,099/- is uploaded on tender wizard.

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the MD, MMRC or the successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that MD, MMRC or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those more than that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in MMRCL in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the

Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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

Dated	Signature of Contracto		
Witness	Postal Address		
Address:			
Occupation:			

ACCEPTANCE

The above tender (as modified by you as provided in the me for and on behalf of the MD, MMRC for a sum of I	, 1		
The letters referred to below shall form part of this contract agreement: -			
(a)			
(b)			
(c)			
	For & on behalf of the MD, MMRC.		
	Signatures		
Dated:	Designation		

INTEGRITY PACT

To,
,
,
Sub: NIT No for the work
Dear Sir,
It is here by declared that MMRCL is committed to follow the principle of transparency, equity and competitiveness in public procurement.
The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.
This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the MMRCL.
Yours faithfully
Deputy General Manager (Civil)

INTEGRITY PACT

,
Deputy General Manager (Civil),
,
Sub: Submission of Tender for the work of
Dear Sir,

Tο

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

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

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

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

Yours faithfully

(Duly authorized signatory of the Bidder)

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

INTEGRITY AGREEMENT

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

BETWEEN

MD, MMRC represented through Deputy General Manager (Civil)

MMRCL, (Hereinafter referred as the 'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

	(Name and Address of the Individual/firm/Company)	
through	(Details of duly authorized signatory)	(Hereinafter
referred to as the '	'Bidder/Contractor" and which expression shall unless repugr	ant to the meaning or
context hereof incl	lude its successors and permitted assigns)	

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No. MMRC/Planning/New Office/CivilMC/NIT/18/03/2nd Call) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for <u>Civil Maintenance Contract for MMRCL's New Office Building situated in E Block, Bandra Kurla Complex, Bandra (E), Mumbai hereinafter referred to as the "Contract".</u>

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

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

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

Article 1: Commitment of the Principal/Owner

- (1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - a. No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b. The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - c. The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC

Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

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

(5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

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

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

Article 4: Previous Transgression

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

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

(1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any

- violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/subvendors.
- (2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- (3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

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

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

Article 7- Other Provisions

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

Article 8- LEGAL AND PRIOR RIGHTS

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

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

(For and on behalf of Principal/Owner)	(For and on behalf of Bidder/Contractor)
WITNESSES:	
1	
(signature, name and address)	
2	
(signature, name and address)	
Place:	
Dated:	

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per CPWD-3) (See Pg. No. 125-180)

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

Description of Item	Quantity	Rate	Place of issue			
2	3	4	5			
NII						
	Description of Item 2	Description of Item Quantity 2 3	2 3 4			

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S. No.	Description	Hire Charges per day	Place of issue
1	2	3	4
		NIL	

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SCHEDULE 'E'

Reference to General Conditions of contract: GCC 2014, CPWD form-7 as modified and corrected upto 31.03.2018

Name of work: <u>Civil Maintenance Contract for MMRCL's New Office Building situated in E Block,</u> Bandra Kurla Complex, Bandra (E), Mumbai.

Estimated cost of work : Civil ₹ 73,09,983/-

(i) Earnest money : ₹73,099/- (to be returned after receiving

performance guarantee)

(ii) Performance Guarantee : 5% of tendered value(iii) Security Deposit : 2.5% of tendered value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS: Officer inviting tender: <u>Deputy General Manager (Civil)</u>

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.

Definitions:

2(5)	Engineer-in-Charge		Deputy General Manager (Civil)
2(8)	Accepting Authority		Deputy General Manager (Civil)
2(10)	Percentage on cost of materi	als	
()	and labour to cover all overh		
	and profits.		15%
2(11)	Standard Schedule of Rates		CPWD DSR 2016,
2(12)	Department		Planning Department, MMRCL
9(2)	Standard CPWD contract Fo	rm	
- (-)	GCC 2014, CPWD Form 7		
	as modified & corrected upto	0	31 March 2018
Clause 1	•		
(i)	Time allowed for submission of	Performa	nce
(-)	Guarantee, Programme Chart (T		
	and applicable labour licenses, re		
	EPFO, ESIC and BOCW Welfar	_	
	applying thereof from the date of		1
	of letter of acceptance		<u>15 days</u>
(ii)	Maximum allowable extension v	vith late f	
. ,	@ 0.1% per day of Performance	Guarant	ee
	amount beyond the period provi		
	in (I) above		<u>15 days</u>
Clause 2			
A	uthority for fixing compensation un	nder claus	se 2 <u>Deputy General Manager (Civil)</u>
Clause 2			
W	hether Clause 2A shall be applicable	ole	No
Clause 5			_
N	umber of days from the date of issu	ie of lette	r
	f acceptance for reckoning date of s		7 days
	ime allowed for execution of work		24 Months
Authorit	ty to decide:		
(i)	Extension of time		Deputy General Manager (Civil)
(ii)	Rescheduling of mile stones		Deputy General Manager (Civil)
(iii)	Shifting of date of start in case o	f delay	
()	in handing over of site	,	Deputy General Manager (Civil)
Schedule	e of Handing over of site:		
		Descri	Time Devied for handing everyalround from data
Part	Portion of site		Time Period for handing overreckoned from date of issue of letter of intent.
		ption	of issue of fetter of intent.
Part A	Portion without any hindrance	Nil	There is no hindrance.
	,		
Part B	Portions with encumbrances	Nil	
			There are no encumbrances.
	Portions dependent on work of		324
1 D 4 C	41	NT:1	I NICI

Nil

Nil

other agencies

Part C

Clause 5.2

Nature of Hindrance Register: Physical

Clause 6A

Clause applicable –

i. For this work Clause 6A (Computerized Measurement Book) is applicable. Clause 6 is not applicable to this work.

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for

being eligible to interim payment

Not Applicable

CLAUSE 7A

Whether Clause 7A shall be applicable

Yes

Clause 10A

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

1. Weigh Balance (10 kg and 2 kg) 2. Sieve Set (2 Nos.) 3. Measuring Tapes (5m and 30m)

4. Measuring Flask

5. Screw Gauge

6. Vernier Calipers

Clause 10B(ii) & (iii)

Whether Clause 10 B (ii) shall be applicable

No
Whether Clause 10 B (iii) shall be applicable

No

Clause 10C

Component of labour expressed as percent of

value of work N. A.

Clause 10CA

S.	Materials	Nearest Materials (other than	Base Price and its
No.	Covered	cement*, reinforcement bars,	corresponding period
	under	the structural steel and POL)	of all the Materials
	this	for which All India Wholesale	covered under clause
	clause:	Price Index to be followed:	10 CA*
1			
2			
3			

^{*} includes Cement component used in RMC brought at site from outside approved RMC plants, if any.

ABOVE CLAUSE IS NOT APPLICABLE TO THIS TENDER

^{**} Base price and its corresponding period of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period.

Clause 10CC Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column NOT APPLICABLE Schedule of component of other Materials, Labour etc. for price escalation. Component of civil (except materials covered under clause 10CA) /Electrical construction X_m____ value of work. -Component of Labour expressed as percent of total value of work. Y Note: X_m % should be equal to (100) - (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour) ABOVE CLAUSE IS NOT APPLICABLE TO THIS TENDER Clause 11 Specifications to be followed for execution of work For Civil items of work CPWD Specifications 2009 Vol. 1 and Vol. 2 with correction slips up to 31-03-2018 (Hereinafter called CPWD specifications also) along with additional specification mentioned elsewhere in the tender. Clause 12 Type of work Project and Original Work 12.2 & 12.3 Deviation Limit beyond which clauses N.A. 12.2 & 12.3 shall apply for building work 12.5 (i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) N.A.

Clause 16

Competent Authority for deciding reduced rates

Deputy General Manager (Civil)

N.A.

Deviation Limit for items mentioned in earth

work subhead of DSR and related items

(ii)

Clause 18
List of mandatory machinery, tools & plants to be deployed by the contractor at site: -

Vacuum Blower	Putty Knife	Tile Cutter	Measuring Box Polishers	
Digging bar	Ladder	Flat Pry Bar	Block Plane /	Hand Saw
			Jack Plane	
Circular Saw	Cordless Drill	Torpedo Level	Line Level	Framing
				Hammer
Framing Square	Crow Bar	Chisel	Wooden	Bump
			Float/wooden	Cutter/Screed
			rendering float	
Safety Glass	Gloves	Sand screening	Rubber Boots	Wheel Barrow
		machine		
Plumb Bob	Masonry trowel	Head Pan	Ное	Measurement
				Tape

Clause 25

Above Clause not applicable to this tender. However, in case of any dispute decision of Executive Director (Planning), MMRCL shall be final and binding.

Clause 36 (i)

Requirement of Technical Representative(s) and recovery Rate

S.	Minimum	Discipline	Designation	Minimum	Number	Rate	at which		
No.	Qualification		(Principal	Experience		recover	y shall be		
	of Technical Technical		f Technical Technical (In		cal Technical (In Years			made	
	Representative		/Technical			from	the		
			representative)			contrac	tor in the		
						event o	f not		
						fulfillin	ıg		
						provision	on of		
						clause 3	36(i)		
						Fig.	Words		
1	(i)Graduate /	Civil	Supervisor	5	1	₹	Rupees		
	Diploma					15000	Fifteen		
	Engineer					pm	Thousand		
						(each)	Only		

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

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

Clause 42 NOT APPLICABLE

(i)

a. Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates _____ printed by C.P.W.D.

NA

- (ii) Variations permissible on theoretical quantities:
 - a. Cement

d. All other materials.

For works with estimated cost put to tender not more than Rs. 5 lakhs.

NA

For works with estimated cost put to tender more than Rs.5 lakh.

NA

b. Bitumen All Works NA

c. Steel Reinforcement and structural steel sections for each diameter, section and category NA

		General Rules & Directions
Name of Work		Civil Maintenance Contract for MMRCL's New Office Building situated in E
		Block, Bandra Kurla Complex, Bandra (E), Mumbai.
	1	The tenderer is advised to read and examine the tender documents for the work
		and the set of drawings available with Engineer-in-charge. He should inspect
		and examine the site and its surroundings by himself before submitting his
		tender.
	2	Schedule of quantity is included in this tender for civil items of work. If the
		tenderer wants to offer any unconditional rebates on their rates, the same should
		also be offered in the respective components of civil schedule separately. The
		contractor shall quote the percentage rates in figures and words accurately so
		that there is no discrepancy in rates written in figures and words.
	3	Time allowed for the execution of work is 24 months.
	4	The contractor(s) shall submit a detailed program of execution in accordance
	-	with the master programme/milestone within ten days from the date of issue of
		award letter.
	5	Quality of the project is of utmost importance. This shall be adhered to in
	3	
		accordance with the provisions of CPWD specifications and guidelines given in
	(the relevant paras.
	6	The contractor (s) shall make his own arrangements for electricity and water
	<u> </u>	required for the execution of work.
	7	Cement shall be arranged by the contractor himself.
	8	Steel Reinforcement shall be arranged by the contractor himself.
	9	Contractor has to use specialized agencies for specialized items of works such
		as water proofing, aluminum works, structural glazing, ACP, External Painting
		and other specialized items as mentioned in the tender documents.
	10	Contractor has to deploy required Plant and machinery on the project. Minimum
		number of plant and machinery to be deployed by him is indicated in Schedule
		F. In case the contractor fails to deploy the plant and machinery whenever
		required and as per the direction of the Engineer-in-charge, he (Engineer-in-
		charge) shall be at a liberty to get the same deployed at the risk and cost of the
		contractor.
	11	The contractor shall submit the running bills in the shape of the computerized
		MB in pages of A-4 size as per the standard format of department and shall act
		as per modified clause 6 A of CPWD-7
	12	Contractor has to provide reinforcement cover blocks made of approved
		proprietary pre- packed free flowing mortars (Conbextra as manufactured by
		M/s Fosroc Chemical India Ltd. or approved equivalent) of high early strength.
	13	The contractor shall comply with the provisions of the Apprentices Act 1961,
		and the rules and orders issued there under from time to time.
	14	In the event of the tender being submitted by a firm, it must be signed separately
	' '	by each partner thereof or in the event of the absence of any partner, it must be
		signed on his behalf by a person holding a power-of attorney authorizing him to
		do so, such power of attorney to be produced with the tender, and it must
		disclose that the firm is duly registered under the Indian Partnership Act, 1932.
		disclose that the firm is duty registered under the indian Partnership Act, 1932.

15	Receipts for payment made because work, when executed by a firm, must also
	be signed by all the partners, except where contractors are described in their
	tender as a firm, in which case the receipts must be signed in the name of the
	firm by one of the partners, or by some other person having due authority to
	give effectual receipts for the firm.
16	In case of Percentage Rate Tenders, contractor shall fill up the usual printed
10	form, stating at what percentage below/above (in figures as well as in words)
	the total estimated cost given in Schedule of Quantities at Schedule-A, he will
	be willing to execute the work. The tender submitted shall be treated as invalid
	if: -
	1. The contractor does not quote percentage above/below on the total
	amount of tender or any section/sub head of the tender.
	2. The percentage above/below is not quoted in figures & words both on
	the total amount of tender or any section/sub head of the tender.
	3. The percentage quoted above/below is different in figures & words on
	the total amount of tender or any section/sub head of the tender.
	Tenders, which propose any alteration in the work specified in the said form of
	invitation to tender, or in the time allowed for carrying out the work, or which
	contain any other conditions of any sort including conditional rebates, will be
	summarily rejected. No single tender shall include more than one work, but
	contractors who wish to tender for two or more works shall submit separate
	tender for each.
17	In case the lowest tendered amount (estimated cost \pm amount worked on the
	basis of percentage above/below) of two or more contractors is same, such
	lowest contractors will be asked to submit sealed revised offer in the form of
	letter mentioning percentage above/ below on estimated cost of tender including
	all sub sections/sub heads as the case may be, but the revised percentage quoted
	above/below on tendered cost or on each sub section/ sub head should not be
	higher than the percentage quoted at the time of submission of tender. The
	lowest tender shall be decided based on revised offers.
	In case any of such contractor refuses to submit revised offer, then it shall be
	treated as withdrawal of his tender before acceptance and 50% of earnest money
	shall be forfeited.
	If the revised tendered amount of two more contractors received in revised offer
	is again found to be equal, the lowest tender, among such contractors, shall be
	decided by draw of lots in the presence of DGM (Civil), Engineer-in-charge of
	major & minor component(s) & the lowest contractors those have quoted equal
	amount of their tenders.
	In case all the lowest contractors those have quoted same tendered amount,
	refuse to submit revised offers, then tenders are to be recalled after forfeiting
	50% of EMD of each contractor.
	Contractor(s), whose earnest money is forfeited because of non-submission of
	revised offer, shall not be allowed to participate in the re-tendering process of
	the work.
18	The officer inviting tenders shall have the right of rejecting all or any of the
1	tenders and will not be bound to accept the lowest or any other tender.

19	The tenderers shall sign a declaration under the officials Secret Act 1923, for
13	maintaining secrecy of the tender documents drawings or other records
	connected with the work given to them.
20	Use of correcting fluid, anywhere in tender document is not permitted. Such
20	tender is liable for rejection.
21	-
21	In case of Percentage Rate Tenders only percentage quoted shall be considered.
	Any tender containing item rates is liable to be rejected. Percentage quoted by
	the contractor in percentage rate tender shall be accurately filled in figures and
	words, so that there is no discrepancy.
22	In Percentage Rate Tender, the tenderer shall quote percentage below/above (in
	figures as well as in words) at which he will be willing to execute the work.
23	i. The Contractor whose tender is accepted, will be required to furnish
	performance guarantee within the period specified in Schedule F.
	ii. The contractor whose tender is accepted will also be required to
	furnish by way of Security Deposit for the fulfillment of his
	contract, an amount equal to 2.5% of the tendered value of the work.
	The Security deposit will be collected by deductions from the
	running bills as well as final bill of the contractor at the rate
	mentioned above.
24	On acceptance of the tender, the name of the accredited representative(s) of the
	contractor who would be responsible for taking instructions from the Engineer-
	in-Charge shall be communicated in writing to the Engineer-in-Charge.
25	GST or any other tax applicable in respect of inputs procured by the contractor
	for this contract shall be payable by the Contractor and Government will not
	entertain any claim whatsoever in respect of the same. However, component of
	GST at time of supply of services (as provided in CGST Act 2017) provided by
	the contract shall be varied if different from that applicable on the last date of
	receipt of tender including extension if any.
26	The contractor shall give a list of both Gazetted and non-Gazetted MMRCL
	employees related to him.
27	The tender for the work shall not be witnessed by a contractor or contractors
	who himself/ themselves has/have tendered or who may and has/have tendered
	for the same work. Failure to observe this condition would render, tenders of
	the contractors tendering, as well as witnessing the tender, liable to summary
	rejection.
28	The contractor shall comply with the provisions of the Apprentices Act 1961,
20	and the rules and orders issued thereunder from time to time. If he fails to do
	so, his failure will be a breach of the contract and the Deputy General Manager
	(Civil)/Assistant General Manager (Civil) may in his discretion, without
	prejudice to any other right or remedy available in law, cancel the contract. The
	contractor shall also be liable for any pecuniary liability arising because any
	violation by him of the provisions of the said Act.

	C	ONDITIONS OF CONTRACT
Definitions	1.	The Contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the MD, MMRC and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in- Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
	2.	In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them: - 1. The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional 2. The Site shall mean the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract. 3. The contractor shall mean the individual, firm or company whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company. 4. The MD, MMRC means the Managing Director, Mumbai Metro Rail Corporation Limited and its successors. 5. The Engineer-in-charge means the Engineer Officer who shall supervise and be in charge of the work and who shall sign the contract on behalf of the MD, MMRC as mentioned in Schedule 'F' hereunder. 6. Government or Government of India shall mean the State Government or Central Government. 7. The term Director includes Managing Director, MMRCL and Executive Director (Planning) of MMRCL. 8. Accepting Authority shall mean the authority mentioned in Schedule 'F'. 9. Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and

		10. Market Rate shall be the rate as decided by the Engineer-in-Charge on the
		basis of the cost of materials and labour at the site where the work is to be
		executed plus the percentage mentioned in Schedule 'F' to cover, all
		overheads and profits.
		Provided that no extra overheads and profits shall be payable on the part(s)
		of work assigned to other agency(s) by the contractor as per terms of
		contract.
		11. Schedule(s) referred to in these conditions shall mean the relevant
		schedule(s) annexed to the tender papers or the standard Schedule of Rates
		of the government mentioned in Schedule 'F' hereunder, with the
		amendments thereto issued upto the date of receipt of the tender.
		12. Department means Planning Department of MMRCL which invites
		tenders on behalf of MD, MMRC as specified in schedule 'F'.
		13. District Specifications means the specifications followed by the State
		Government in the area where the work is to be executed.
		14. Tendered value means the value of the entire work as stipulated in the
		letter of award.
		15. Date of commencement of work: The date of commencement of work
		shall be the date of start as specified in schedule 'F' or the first date of
		handing over of the site, whichever is later, in accordance with the phasing
		if any, as indicated in the tender document.
		16. GST shall mean Goods and Service Tax – Central, State and Inter State.
		17. MMRC or MMRCL shall mean Mumbai Metro Rail Corporation Limited,
		A 50:50 Joint Venture, Special Purpose Vehicle of Government of India
C 1	2	and Government of Maharashtra.
Scope and Performance	3	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required
Performance		include feminine gender and vice versa.
	4	Headings and Marginal notes to these General Conditions of Contract shall not be
		deemed to form part thereof or be taken into consideration in the interpretation or
		construction thereof or of the contract.
	5	The contractor shall be furnished, free of cost one certified copy of the contract
		documents except standard specifications, Schedule of Rates and such other
		printed and published documents, together with all drawings as may be forming
		part of the tender papers. None of these documents shall be used for any purpose
		other than that of this contract.
Works to be	6	The work to be carried out under the Contract shall, except as otherwise provided
carried out		in these conditions, include all Labour, materials, tools, plants, equipment and
		transport which may be required in preparation of and for and in the full and entire
		execution and completion of the works. The descriptions given in the Schedule of
		Quantities (Schedule- A) shall, unless otherwise stated, be held to include wastage
		on materials, carriage and cartage, carrying and return of empties, hoisting, setting,
		fitting and fixing in position and all other labors necessary in and for the full and
		entire execution and completion of the work as aforesaid in accordance with good
		practice and recognized principles.
c cc .	7	
Sufficiency of Tender	7	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices

		quoted in the Schedule of Quantities, which rates and prices shall, except as						
		otherwise provided, cover all his obligations under the Contract and all matters and						
		things necessary for the proper completion and maintenance of the works.						
Discrepancies	8	The several documents forming the Contract are to be taken as mutually						
and		explanatory of one another, detailed drawings being followed in preference to						
Adjustment		small scale drawing and figured dimensions in preference to scale and special						
of Errors		conditions in preference to General Conditions.						
	8.1	In the case of discrepancy between the schedule of Quantities, the Specifications						
		and/ or the Drawings, the following order of preference shall be observed: -						
		(i) Description of Schedule of Quantities.						
		(ii) Specification and Special Condition, if any.						
		(iii) Drawings.						
		(iv) CPWD Specifications.						
		(v) Indian Standard Specifications of B.I.S.						
		(vi) Additional Specifications given by MMRC.						
	8.2	If there are varying or conflicting provisions made in any one document forming						
		part of the contract, the Accepting Authority shall be the deciding authority about						
		the intention of the document and his decision shall be final and binding on the						
		contractor.						
	8.3	Any error in description, quantity or rate in Schedule of Quantities or any omission						
		therefrom shall not vitiate the Contract or release the Contractor from the execution						
		of the whole or any part of the works comprised therein according to drawings and						
		specifications or from any of his obligations under the contract.						
Signing of	9	The successful tenderer/Contractor on acceptance of his tender by the Accepting						
Contract		Authority, shall, within 15 days from the stipulated date of start of the work, sign						
		the contract consisting of: -						
		(i) the notice inviting tender, all the documents including drawings, if						
		any, forming the tender as issued at the time of invitation of tender and						
		acceptance thereof together with any correspondence leading thereto.						
		(ii) Standard C.P.W.D. Form as mentioned in Schedule 'F' consisting of:						
		a. Various standard clauses with corrections up to the date stipulated						
		in Schedule 'F' along with annexures thereto.						
		b. Safety Code provided in the tender.						
		c. Model Rules for the protection of health, sanitary arrangements						
		for workers employed by MMRCL or its contractors.						
		d. CPWD Contractor's Labour Regulations provided in the tender.						
		e. List of Acts and omissions for which fines can be imposed.						
		(iii) No payment for the work done will be made unless contract is signed						
		by the contractor.						
1	1	2)						

	CLAUS	SES OF CONTRACT
CLAUSE 1 Performance Guarantee	(I)	The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount
		is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Fixed Deposit Receipts or Bank Guarantee of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
	(ii)	The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
	(iii)	The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the MD, MMRC is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of: (a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee. (b) Failure by the contractor to pay MD, MMRC any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the

		agreement, within 30 days of the service of notice to
		this effect by Engineer-in-Charge.
	(iv)	In the event of the contract being determined or rescinded under
		provision of any of the Clause / Condition of the agreement, the
		performance guarantee shall stand forfeited in full and shall be
		absolutely at the disposal of the MD, MMRC.
	(v)	On substantial completion of any work which has been
		completed to such an extent that the intended purpose of the
		work is met and ready to use, then a provisional Completion
		certificate shall be recorded by the Engineer-in-Charge. The
		provisional certificate shall have appended with a list of
		outstanding balance item of work that need to be completed in
		accordance with the provisions of the contract.
		This provisional completion certificate shall be recorded by the
		concerned Engineer-in-Charge with the approval of Project
		Manager/ Chief Project Manager/ Deputy General Manager
		(Civil). After recording of the provisional completion certificate
		for the work by the competent authority, the 80% of
		performance guarantee shall be returned to the contractor,
		without any interest.
		However, in case of contracts involving Maintenance of
		buildings and services/any other work after construction of
		same building and services/ other work, then 40% of
		performance guarantee shall be returned to the contractor,
		without any interest after recording the provisional completion
		certificate.
CLAUSE 1A		The person/persons whose tender(s) may be accepted
Recovery of		(hereinafter called the contractor) shall permit Government at
Security Deposit		the time of making any payment to him for work done under the
		contract to deduct a sum at the rate of 2.5% of the gross amount
		of each running and final bill till the sum deducted will amount
		to security deposit of 2.5% of the tendered value of the work.
		Such deductions will be made and held by Government by way
		of Security Deposit unless he/they has/have deposited the
		amount of Security at the rate mentioned above in cash or in the
		form of Government Securities or fixed deposit receipts. In case
		a fixed deposit receipt of any Bank is furnished by the contractor
		to the Government as part of the security deposit and the Bank
		is unable to make payment against the said fixed deposit receipt,
		the loss caused thereby shall fall on the contractor and the
		contractor shall forthwith on demand furnish additional security
		to the Government to make good the deficit.
		All compensations or the other sums of money payable by the
		contractor under the terms of this contract may be deducted
		from, or paid by the sale of a sufficient part of his security
		deposit or from the interest arising therefrom, or from any sums
		which may be due to or may become due to the contractor by
		"men may be due to or may become due to the confidetor by

Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favor of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.

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

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

Note-1: Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Divisional Officer at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld if necessary. Note-2: Government Securities will include all forms of Securities mentioned in Rule No. 274 of the G.F. Rules except fidelity bond. This will be subject to the observance of the condition mentioned under the rule against each form of security.

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

CLAUSE 2 Compensation for Delay

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

Compensation	for	delay	of	@ 1 % per month of for
work				delay of delay to be
				computed work on per day
				basis

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

In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period. If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under sub clause 5.2, the contractor shall be liable to pay compensation for such delay.

If compensation during the progress of work before the justified extended date of completion for delay under this clause shall be for non-achievement of sectional completion or part handing over of work on stipulated/justified extended date for such part work or if delay affects any other works/services. This is without prejudice to right of action by the Engineer in Charge under clause 3 for delay in performance and claim of compensation under that clause. In case action under clause 2 has not been finalized and the work has been determined under

CLAUSE 2A Incentive for early completion	clause 3, the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule F, after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after of determination of contract. The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount. DELETED FOR THIS TENDER
CLAUSE 3 When Contract can be Determined	Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases: (i) If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter. (ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and

- continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- (iii) If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.
- (iv) If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- (v) If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government.
- (vi) If the contractor shall enter into a contract with Government about which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
- (vii) If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.
- (viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for

- the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
- (ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order. If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
- (x) If the contractor assigns (excluding part(s)) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer -in-Charge.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the MD, MMRC shall have powers:

- (a) To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which termination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government
- (b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate

CLAUSE 3A	in the tendering process for the balance work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified. In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits: (I) If the Tendered value of work is up to Rs. 45 lacs: 15 days. (II) If the Tendered value of work is more than Rs. 45 lacs and up to Rs. 2.5 Crore: 21 days. (III) If the Tendered value of work exceeds Rs. 2.5 Crore: 30 days. Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by
CLAUSE 4 Contractor liable to pay Compensation even if action not	either party. In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in
taken under Clause 3	the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the

	ended to be used for the execution of the
	hereof, paying or allowing for the same in
account at the cont	ract rates, or, in the case of these not being
applicable, at curr	rent market rates to be certified by the
Engineer-in-Charge	e, whose certificate thereof shall be final, and
	tractor, clerk of the works, foreman or other
	remove such tools, plant, materials, or
	remises (within a time to be specified in
	`
	e event of the contractor failing to comply
	requisition, the Engineer-in-Charge may
	contractor's expense or sell them by auction
	account of the contractor and his risk in all
respects and the ce	rtificate of the Engineer-in-Charge as to the
expenses of any su	ch removal and the amount of the proceeds
and expenses of a	ny such sale shall be final and conclusive
against the contract	-
	or execution of the Works as specified in the
	e extended time in accordance with these
	the essence of the Contract. The execution
	commence from such time as mentioned in
	n the date of handing over of the site, notified
	-Charge, whichever is later. However, the
handing over of site	e by the Engineer in Charge, in full or in part
(if so provided in	contract), shall be completed within two
months from issue	e of acceptance letter. If the Contractor
commits default in	commencing the execution of the work as
aforesaid, the perfe	ormance guarantee shall be forfeited by the
	and shall be absolutely at the disposal of the
	ut prejudice to any other right or remedy
available in law.	at prejudice to any other right of remedy
	le but within twenty-one days of award of
work and in consider	, ,
	of handing over of site as specified in the
Schedule 'I	
	of issue of designs as specified in the
Schedule 'l	
(i) the Co	ntractor shall submit a Time and Progress
Chart f	or each mile stone. The Engineering-Charge
may w	ithin 30 days thereafter, if required modify,
	ommunicate the program approved to the
	etor failing which the program submitted by
	attractor shall be deemed to be approved by
	gineer-in- Charge. The work programme
	nclude all details of balance drawings and
	ns required to complete the contract with
	c dates by which these details are required by
	etor without causing any delay in execution

	of the work. The Chart shall be prepared in direct
	relation to the time stated in the Contract documents
	for completion of items of the works. It shall
	indicate the forecast of the dates of commencement
	and completion of various trades of sections of the
	work and may be amended as necessary by
	agreement between the Engineer-in-Charge and the
	Contractor within the limitations of time imposed
	in the Contract documents, and further to ensure
	good progress during the execution of the work, the
	contractor shall in all cases in which the time
	allowed for any work, exceeds one month (save for
	special jobs for which a separate programme has
	been agreed upon) complete the work as per mile
	stones given in Schedule 'F'.
	(ii) In case of non-submission of construction
	programme by the contractor the program approved
	by the Engineer-in-Charge shall be deemed to be
	final.
	(iii) The approval by the Engineer-in-Charge of such
	programme shall not relieve the contractor of any
	of the obligations under the contract.
	(iv) The contractor shall submit the Time and Progress
	Chart and progress report using the mutually agreed
	software or in other format decided by Engineer-in-
	Charge for the work done during previous month to
	the Engineer-in charge on or before 5th day of each
	month failing which a recovery Rs. 2500/ - (for
	works costing upto Rs. 20 Crores) / Rs. 5000/- (for
	works costing more than Rs. 20 Crores) shall be
	made on per week or part basis in case of delay in
	submission of the monthly progress report.
5.2	If the work(s) be delayed by: -
	a. force majeure, or
	b. abnormally bad weather, or
	c. serious loss or damage by fire, or
	d. civil commotion, local commotion of workmen, strike
	or lockout, affecting any of the trades employed on the
	work, or
	e. delay on the part of other contractors or tradesmen
	engaged by Engineer-in- Charge in executing work not
	forming part of the Contract, or
	f. non-availability of stores, which are the responsibility
	of Government to supply or
	g. non-availability or break down of tools and Plant to be
	supplied or supplied by Government or

h. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control. then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge for entry in the hindrance register (physical or web-based as prescribed in schedule F) but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed in sub clause 5.2. 5.3 In case the work is hindered by any reasons, in the opinion of the contractor, by the Department or for someone for whose action the Department is responsible, the contractor may immediately give notice thereof in writing to the Engineer-in-Charge in the same manner as prescribed under sub Clause 5.2 seeking extension of time or rescheduling of milestone/s. The authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work after due consideration of the
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same within 30 days of receipt of such request. In event of non-
application by the contractor for extension of time E-in-C after
affording opportunity to the contractor may give, supported
with a programme, a fair and reasonable extension within a
reasonable period of occurrence of the event. Such extension of
time or rescheduling of milestone/s shall be without prejudice
to any other right or remedy of the parties in contract or in law;
provided further that for concurrent delays under this sub clause
and sub clause 5.2 to the extent the delay is covered under sub
clause 5.2 the contractor shall be entitled to only extension of
time and no damages.
8.4 Request for rescheduling of Mile stones or extension of time, to
be eligible for consideration, shall be made by the Contractor in
writing within fourteen days of the happening of the event
causing delay on the prescribed forms i.e. Form of application
by the contractor for seeking rescheduling of milestones
(Appendix-XVI) or Form of application by the contractor for
seeking extension of time (Appendix –XVII) respectively to the
authority as indicated in Schedule 'F'. The Contractor shall
indicate in such a request the period by which rescheduling of
milestone/s or extension of time is desired.
With every request for rescheduling of milestones, or if at any
time the actual progress of work falls behind the approved
programme by more than 10% of the stipulated period of

		completion of contract, the contractor shall produce a revised
		programme which shall include all details of pending drawings
		and decisions required to complete the contract and also the
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		target dates by which these details should be available without
		causing any delay in execution of the work. A recovery as
		specified in Schedule 'F' shall be made on per day basis in case
		of delay in submission of the revised programme.
	5.4.1	In any such case the authority as indicated in Schedule 'F' may
		give a fair and reasonable extension of time for completion of
		work or reschedule the mile stones. Such extension or
		rescheduling of the milestones shall be communicated to the
		Contractor by the authority as indicated in Schedule 'F' in
		writing, within 30 days of the date of receipt of such request
		from the Contractor in prescribed form. In event of non-
		application by the contractor for extension of time E-in-C after
		affording opportunity to the contractor, may give, supported
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		with a programme (as specified under 5.4 above), a fair and
		reasonable extension within a reasonable period of occurrence
		of the event.
	5.5	In case the work is delayed by any reasons, in the opinion of the
		Engineer-in-Charge, by the contractor for reasons beyond the
		events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and
		beyond the justified extended date; without prejudice to right to
		take action under Clause 3, the Engineer-in-Charge may grant
		extension of time required for completion of work without
		rescheduling of milestones. The contractor shall be liable for
		levy of compensation for delay for such extension of time.
CLAUSE 6		Engineer-in-Charge shall, except as otherwise provided,
Measurements of		ascertain and determine by measurement, the value in
Work Done		accordance with the contract of work done.
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		All measurement of all items having financial value shall be
		entered in Measurement Book and/or level field book so that a
		complete record is obtained of all works performed under the
		contract.
		All measurements and levels shall be taken jointly by the
		Engineer-in-Charge or his authorized representative and by the
		contractor or his authorized representative from time to time
		during the progress of the work and such measurements shall be
		signed and dated by the Engineer- in-Charge and the contractor
		or their representatives in token of their acceptance. If the
		contractor objects to any of the measurements recorded, a note
		shall be made to that effect with reason and signed by both the
		parties.
		If for any reason the contractor or his authorized representative
		is not available and the work of recording measurements is
		suspended by the Engineer-in-Charge or his representative, the
ì		Engineer-in-Charge and the Department shall not entertain any

claim from contractor for any loss or damages on this account. If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.

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

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

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or

	material to which it relates nor shall it relieve the contractor
	from liabilities from any over measurement or defects noticed
	till completion of the defects liability period.
CLAUSE 6A	Engineer-in-Charge shall, except as otherwise provided,
Computerized	ascertain and determine by measurement the value of work done
Measurement	in accordance with the contract. All measurements of all items
Book	
DOOK	having financial value shall be entered by the contractor and
	compiled in the shape of the Computerized Measurement Book
	having pages of A-4 size as per the format of the department so
	that a complete record is obtained of all the items of works
	performed under the contract.
	All such measurements and levels recorded by the contractor or
	his authorized representative from time to time, during the
	progress of the work, shall be got checked by the contractor
	from the Engineer-in-Charge or his authorized representative as
	per interval or program fixed in consultation with Engineer-in-
	Charge or his authorized representative. After the necessary
	corrections made by the Engineer-in-Charge, the measurement
	sheets shall be returned to the contractor for incorporating the
	corrections and for resubmission to the Engineer-in- Charge for
	the dated signatures by the Engineer-in- Charge and the
	contractor or their representatives in token of their acceptance.
	Whenever bill is due for payment, the contractor would initially
	submit draft computerized measurement sheets and these
	measurements would be got checked/test checked from the
	Engineer-in-Charge and/or his authorized representative. The
	contractor will, thereafter, incorporate such changes as may be
	done during these checks/test checks in his draft computerized
	measurements, and submit to the department a computerized
	measurement book, duly bound, and with its pages machine
	numbered. The Engineer-in- Charge and/or his authorized
	representative would thereafter check this MB, and record the
	necessary certificates for their checks/test checks.
	The final, fair, computerized measurement book given by the
	contractor, duly bound, with its pages machine numbered,
	should be 100% correct, and no cutting or over-writing in the
	measurements would thereafter be allowed. If at all any error is
	noticed, the contractor shall have to submit a fresh computerized
	MB with its pages duly machine numbered and bound, after
	getting the earlier MB cancelled by the department. Thereafter,
	the MB shall be taken in the Divisional Office records, and
	allotted a number as per the Register of Computerized MBs.
	This should be done before the corresponding bill is submitted
	to the Division Office for payment. The contractor shall submit
	two spare copies of such computerized MB's for the purpose of
	reference and record by the various officers of the department.
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	The contractor shall also submit to the department separately his

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

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

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

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking

measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account

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		of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.
CLAUSE 7		No payment shall be made for work, estimated to cost Rs. One
Payment on		Lac or less till after the whole of the work shall have been
Intermediate		completed and certificate of completion given. For works
Certificate to be		estimated to cost over Rs. One Lac, the interim or running
Regarded as		account bills shall be submitted by the contractor for the work
		account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Asstt. Engineer
		together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer- in-Charge, the period of ten working days will be extended to fifteen working days. In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor provided the bill
		submitted by the contractor found to be in order, a simple interest @ 10% per annum shall be paid to the contractor from the date of expiry of prescribed time limit which will be compounded on yearly basis.
		All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or reerected. Any certificate given by the Engineer-in-Charge

	relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of
	accounts or in any way vary or affect the contract. Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to act under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority. The Engineer-in-Charge in his sole discretion based on a certificate from the Asstt. Engineer to the effect that the work
	has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum shall be paid to the Government from the date of expiry of prescribed time limit which will be compounded on yearly basis.
Payments in composite Contracts	In case of composite tenders, running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor.
	In case main contractor fails to make the payment to the contractor associated by him within 15 days of receipt of each running account payment, then on the written complaint of contractor associated for such minor component, Engineer in charge of minor component shall serve the show cause to the main contractor and if reply of main contractor either not received or found unsatisfactory, he may make the payment directly to the contractor associated for minor component as per the terms and conditions of the agreement drawn between main contractor and associate contractor fixed by him. Such payment made to the associate contractor shall be recovered by

R/A/ final bill due to main contractor. CLAUSE 7A No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-In-Charge. CLAUSE 8 Completion Certificate and Completion Plans Completion Plans Completion Plans Completion Plans R/A/ final bill due to main contractor. No Running Account Bill shall be paid for the work till the applicable are submitted by the contractor of the Engineer-In-Charge. Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have
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site in connection with the execution of the works as shall have
been erected or constructed by the contractor(s) and cleaned off
the dirt from all wood work, doors, windows, walls, floor or
other parts of the building, in, upon, or about which the work is
to be executed or of which he may have had possession for the
purpose of the execution; thereof, and not until the work shall
have been measured by the Engineer-in-Charge. If the
contractor shall fail to comply with the requirements of this
Clause as to removal of scaffolding, surplus material and
rubbish and all huts and sanitary arrangements as aforesaid and
cleaning off dirt on or before the date fixed for the completion
of work, the Engineer-in-Charge may at the expense of the
contractor remove such scaffolding, surplus materials and
rubbish etc., and dispose of the same as he thinks fit and clean
off such dirt as aforesaid, and the contractor shall have no claim
in respect of scaffolding or surplus materials as aforesaid except
for any sum actually realized by the sale thereof.
CLAUSE 8A When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, color
Keep Site Clean washing, painting etc., on walls, floor, windows, etc. shall be
removed and the surface cleaned simultaneously with the
completion of these items of work in the individual rooms,
quarters or premises etc. where the work is done: without
waiting for the actual completion of all the other items of
work in the contract. In case the contractor fails to comply
with the requirements of this clause, the Engineer-in-Charge

	shall have the right to get this work done at the cost of the
	contractor either departmentally or through any other agency.
	Before taking such action, the Engineer-in-Charge shall give ten
	days' notice in writing to the contractor.
CLAUSE 8B	The contractor shall submit completion plan as required vide
Completion Plans	General Specifications for Electrical works (Part-I internal)
to be Submitted by	2005 and (Part-Il External) 1994 as applicable within thirty days
the Contractor	of the completion of the work.
	In case, the contractor fails to submit the completion plan as
	aforesaid, he shall be liable to pay a sum of 0.1% of tendered
	value or limit prescribed in Schedule F whichever is more as
	may be fixed by the Deputy General Manager (Civil) concerned
	and in this respect the decision of the Deputy General Manager
	(Civil) shall be final and binding on the contractor.
	The contractor shall submit completion plans for Internal and
	External Civil, Electrical and Mechanical Services within thirty
	days of the completion of the work, provided that the service
	plans having been issued for execution by the Engineer-in-
	Charge, unless the contractor, by any other provision in the
CL ATION 0	contract, is required to prepare such plans.
CLAUSE 9	The final bill shall be submitted by the contractor in the same
Payment of Final	manner as specified in interim bills within three months of
Bill	physical completion of the work or within one month of the date
	of the final certificate of completion furnished by the Engineer-
	in-Charge whichever is earlier. No further claims shall be made
	by the contractor after submission of the final bill and these shall
	be deemed to have been waived and extinguished. Payments of
	those items of the bill in respect of which there is no dispute and
	of items in dispute, for quantities and rates as approved by
	Engineer-in-Charge, will, as far as possible be made within the
	period specified hereinunder, the period being reckoned from
	the date of receipt of the bill by the Engineer-in- Charge or his
	authorized Asstt. Engineer, complete with account of materials
	issued by the Department and dismantled materials.
	(i) If the Tendered value of work is up to Rs. 45 lacs:
	2 months
	(ii) If the Tendered value of work is more than Rs.45
	lac and up to Rs. 2.5 Crore: 3 months
	(iii) If the Tendered value of work exceeds Rs. 2.5
	Crore: 6 months
	In case of delay in payment of final bills after prescribed time
	limit, a simple interest @ 10% per annum shall be paid to the
	contractor from the date of expiry of prescribed time limit which
	will be compounded on yearly basis, provided the final bill
	submitted by the contractor found to be in order.
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CLAUSE 9A Payments due to the Contractor may, if so desired by him, be Payment of made to his bank, registered financial, co-operative or thrift Contractor's Bills societies or recognized financial institutions instead of direct to to Banks him provided that the contractor furnishes to the Engineer-in-Charge (1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, co-operative or thrift societies or recognized financial institutions to receive payments and (2) his own acceptance of the correctness of the amount made out as being due to him by Government or his signature on the bill or other claim preferred against Government before settlement by the Engineer-in-Charge of the account or claim by payment to the bank, registered financial, co-operative or thrift societies or recognized financial institutions. While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, co-operative or thrift societies or recognized financial institutions. Nothing herein contained shall operate to create in favor of the bank; registered financial, co-operative or thrift societies or recognized financial institutions any rights or equities visa- vis the MD, MMRC. **CLAUSE 10** Materials which Government will supply are shown in Schedule Materials supplied 'B' which also stipulates quantum, place of issue and rate(s) to by Government be charged in respect thereof. The contractor shall be bound to procure them from the Engineer-in-Charge. As soon as the work is awarded, the contractor shall finalize the programme for the completion of work as per clause 5 of this contract and shall give his estimates of materials required based on drawings/or schedule of quantities of the work. Contractor shall give in writing his requirement to the Engineerin-Charge which shall be issued to him keeping in view the progress of work as assessed by the Engineer-in-Charge, in accordance with the agreed phased programme of work indicating monthly requirements of various materials. The contractor shall place his indent in writing for issue of such materials at least 7 days in advance of his requirement. Such materials shall be supplied for the purpose of the contract only and the value of the materials so supplied at the rates specified in the aforesaid schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the contractor, from any sum then due or which may therefore become due to the contractor under the

contract or otherwise or from the security deposit. At the time

of submission of bills, the contractor shall certify that balance of materials supplied is available at site in original good condition.

The contractor shall submit along with every running bill (on account or interim bill) material wise reconciliation statements supported by complete calculations reconciling total issue, total consumption and certified balance (diameter/section-wise in the case of steel) and resulting variations and reasons therefore. Engineer-in-Charge shall (whose decision shall be final and binding on the contractor) be within his rights to follow the procedure of recovery in clause 42 at any stage of the work if reconciliation is not found to be satisfactory.

The contractor shall bear the cost of getting the material issued, loading, transporting to site, unloading, storing under cover as required, cutting assembling and joining the several parts together as necessary. Notwithstanding anything to the contrary contained in any other clause of the contract and (or the CPWA Code) all stores/materials so supplied to the contractor or procured with the assistance of the Government shall remain the absolute property of Government and the contractor shall be the trustee of the stores/materials, and the said stores/materials shall not be removed/disposed off from the site of the work on any account and shall be at all times open to inspection by the Engineer-in-Charge or his authorized agent. Any such stores/materials remaining unused shall be returned to the Engineer-in-Charge in as good a condition in which they were originally supplied at a place directed by him, at a place of issue or any other place specified by him as he shall require, but in case it is decided not to take back the stores/materials the contractor shall have no claim for compensation on any account of such stores/materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores/materials. On being required to return the stores/materials, the contractor shall hand over the stores/ materials on being paid or credited such price as the Engineer-in-Charge shall determine, having due regard to the condition of the stores/materials. The price allowed for credit to the contractor, however, shall be at the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to account for contravention of the terms of the licences or permit and/or for criminal breach of trust, be liable to Government for all advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach. Provided that the contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all or any such materials and stores provided further that the contractor shall be bound to execute the entire work if the materials are supplied by the Government within the original scheduled time for completion of the work plus 50% thereof or schedule time plus 6 months whichever is more if the time of completion of work exceeds 12 months, but if a part of the materials only has been supplied within the aforesaid period, then the contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the contractor shall be entitled to such extension of time as may be determined by the Engineer-in-Charge whose decision in this regard shall be final and binding on the contractor.

The contractor shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good/original condition at the time of completion or determination of the contract shall be returned to the Engineer-in-Charge at the stores from which it was issued or at a place directed by him by a notice in writing. The contractor shall not be entitled for loading, transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue.

CLAUSE 10 A Materials to be provided by the Contractor

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

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

The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use

CLAUSE 10B	Secured Advance on Non-	of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials. The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples or such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access. The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor. The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equippe
	Non- perishable Materials	
	Mobilization Advance	(ii) Mobilization advance not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within one month of the order to commence the work. Such advance shall be in two or more installments to be determined by the Engineer-in- Charge at his sole discretion. The

CLAUSE 10 C Payment on Account of Increase in Prices/Wages due	for grant of mobilization advance and plant and equipment advance may be extended in the discretion of the Engineer-in-Charge. DELETED FOR THIS TENDER
to Statutory Order(s) CLAUSE 10 CA	DELETED FOR THIS TENDER
Payment due to variation in prices of materials after receipt of tender	
CLAUSE 10 CC Payment due to Increase/Decrease in Prices/Wages (excluding materials covered under clause 10 CA) after Receipt of Tender for Works	DELETED FOR THIS TENDER
CLAUSE 10 D Dismantled Material Govt. Property	The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed off to the best advantage of Government according to the instructions in writing issued by the Engineer-in-Charge.
CLAUSE 11 Work to be Executed in Accordance with Specifications, Drawings, Orders etc.	The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule 'F' or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including

	for measurements and supervision of all works, structural plans
	and other things of temporary or permanent nature required for
	such execution and maintenance in so far as the necessity for
	providing these, is specified or is reasonably inferred from the
	contract. The Contractor shall take full responsibility for
	adequacy, suitability and safety of all the works and methods of
	construction.
CLAUGE 12	
CLAUSE 12	DELETED FOR THIS TENDER
Deviations/	
Variations Extent	
and Pricing	
CLAUSE 13	If at any time after acceptance of the tender or during the
Foreclosure of	progress of work, the purpose or object for which the work is
contract due to	being done changes due to any supervening cause and as a result
Abandonment or	of which the work has to be abandoned or reduced in scope the
Reduction in	Engineer-in-Charge shall give notice in writing to that effect to
Scope of Work	the contractor stating the decision as well as the cause for such
	decision and the contractor shall act accordingly in the matter.
	The contractor shall have no claim to any payment of
	compensation or otherwise whatsoever, on account of any profit
	or advantage which he might have derived from the execution
	of the works in full but which he did not derive in consequence
	of the foreclosure of the whole or part of the works.
	The contractor shall be paid at contract rates, full amount for
	works executed at site and, in addition, a reasonable amount as
	certified by the Engineer-in-Charge for the items hereunder
	mentioned which could not be utilized on the work to the full
	extent in view of the foreclosure;
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	(i) Any expenditure incurred on preliminary site
	work, e.g. temporary access roads, temporary
	labour huts, staff quarters and site office; storage
	accommodation and water storage tanks.
	(ii) Government shall have the option to take over
	contractor's materials or any part thereof either
	brought to site or of which the contractor is legally
	bound to accept delivery from suppliers (for
	incorporation in or incidental to the work)
	provided, however Government shall be bound to
	take over the materials or such portions thereof as
	the contractor does not desire to retain. For
	materials taken over or to be taken over by
	Government, cost of such materials as detailed by
	Engineer-in- Charge shall be paid. The cost shall,
	however, take into account purchase price, cost
	of transportation and deterioration or damage
	which may have been caused to materials whilst in
	the custody of the contractor.
	the basicary of the contractor.

- (iii) If any materials supplied by Government are rendered surplus, the same except normal wastage shall be returned by the contractor to Government at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to Government stores, if so required by Government, shall be paid.
- (iv) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.
- (v) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government from the contractor under the terms of the contract. In the event of action being taken under Clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up to the extended date of completion or stipulated date of completion if no extension has been granted plus 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor the Engineer-in-Charge may return the previous Performance Guarantee.

CLAUSE 14

Carrying out part work at risk & cost of contractor

If contractor:

- (i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or
- (ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

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

- (i) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or
- (ii) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

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

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than

the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor. Any excess expenditure incurred or to be incurred by Government in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days. If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract. In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract. CLAUSE 15 The contractor shall, on receipt of the order in (i) Suspension of writing of the Engineer-in-Charge, (whose decision Work shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons: a. on account of any default on the part of the contractor or; b. for proper execution of the works or part thereof for reasons other than the default of the contractor; or c. for safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge. (ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

- a. the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;
- b. If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in- Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within fifteen days of the expiry of the period of 30 days.
- (iii) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (a) in sub- para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer- in-Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by Government or where it affects whole of the works, as an abandonment of the works by Government, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by Government, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to

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	such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 3 months.
CLAUSE 15 A	The contractor shall not be entitled to claim any compensation
Compensation in case of Delay of Supply of Material by Govt.	from Government for the loss suffered by him on account of delay by Government in the supply of materials in schedule 'B' where such delay is covered by the difficulties relating to the supply of wagons, force majeure or any reasonable cause beyond the control of the Government. This clause 15 A will not be applicable for works where no
CY AVIOR 16	material is stipulated.
CLAUSE 16 Action in case Work not done as per Specifications	All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-Incharge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the Department or any organization engaged by the Department for Quality Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or to the Engineer in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing
	Rs. 10 Lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work,

materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in- Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

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

CLAUSE 17
Contractor Liable
for Damages,
defects during
defect liability
period

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

	whichever is later. Provided that in the case of road work, if in
	the opinion of the Engineer-in-Charge, half of the security
	deposit is sufficient, to meet all liabilities of the contractor under
	this contract, half of the security deposit will be refundable after
	six months and the remaining half after twelve months of the
	issue of the said certificate of completion or till the final bill has
	been prepared and passed whichever is later.
	In case of Maintenance and Operation works of E&M services,
	the security deposit deducted from contractors shall be refunded
	within one month from the date of final payment or within one
	month from the date of completion of the maintenance contract
	whichever is earlier.
CLAUSE 18	
	The contractor shall provide at his own cost all materials (except
Contractor to	such special materials, if any, as may in accordance with the
Supply Tools &	contract be supplied from the Engineer-in-Charge's stores),
Plants etc.	machinery, tools & plants as specified in schedule F. In addition
	to this, appliances, implements, other plants, ladders, cordage,
	tackle, scaffolding and temporary works required for the proper
	execution of the work, whether original, altered or substituted
	and whether included in the specifications or other documents
	forming part of the contract or referred to in these conditions
	or not, or which may be necessary for the purpose of
	satisfying or complying with the requirements of the Engineer-
	in-Charge as to any matter as to which under these conditions
	he is entitled to be satisfied, or which he is entitled to
	require together with carriage therefore to and from the
	work. The contractor shall also supply without charge the
	requisite number of persons with the means and materials,
	necessary for the purpose of setting out works, and counting,
	weighing and assisting the measurement for examination at any
	time and from time to time of the work or materials. Failing his
	so doing, the same may be provided by the Engineer-in-Charge
	at the expense of the contractor and the expenses may be
	deducted, from any money due to the contractor, under this
	contract or otherwise and/or from his security deposit or the
	proceeds of sale thereof, or of a sufficient portion thereof.
CLAUSE 18 A	In every case in which by virtue of the provisions sub-
Recovery of	section (1) of Section 12, of the Workmen's Compensation
Compensation	Act, 1923, Government is obliged to pay compensation to
paid to Workmen	a workman employed by the contractor, in execution of the
	works, Government will recover from the contractor, the
	amount of the compensation so paid; and, without prejudice to
	the rights of the Government under sub-section (2) of Section
	12, of the said Act, Government shall be at liberty to recover
	such amount or any part thereof by deducting it from the
	security deposit or from any sum due by Government to the
	contractor whether under this contract or otherwise.
	Total transfer when the contract of otherwise.

	Government shall not be bound to contest any claim made
	against it under sub-section (1) of Section 12, of the said Act,
	except on the written request of the contractor and upon his
	giving to Government full security for all costs for which
	Government might become liable in consequence of contesting
	such claim.
CLAUSE 18 B	
	In every case in which by virtue of the provisions of the
Ensuring Payment	Contract Labour (Regulation and Abolition) Act, 1970, and of
and Amenities to	the Contract Labour (Regulation and Abolition) Central Rules,
Workers if	1971, Government is obliged to pay any amounts of wages to a
Contractor fails	workman employed by the contractor in execution of the
	works, or to incur any expenditure in providing welfare
	and health amenities required to be provided under the above
	said Act and the rules under Clause 19H or under the CPWD
	Contractor's Labour Regulations, or under the Rules framed by
	Government from time to time for the protection of health
	and sanitary arrangements for workers employed by MMRCL
	Contractors, Government will recover from the contractor, the
	amount of wages so paid or the amount of expenditure so
	incurred; and without prejudice to the rights of the
	Government under sub-section(2) of Section 20, and sub-
	section (4) of Section 21, of the Contract Labour (Regulation
	and Abolition) Act, 1970, Government shall be at liberty to
	recover such amount or any part thereof by deducting it from
	the security deposit or from any sum due by Government to the
	contractor whether under this contract or otherwise Government
	shall not be bound to contest any claim made against it under
	sub-section (1) of Section 20, sub-section (4) of Section 21, of
	the said Act, except on the written request of the contractor and
	upon his giving to the Government full security for all costs for
	which Government might become liable in contesting such
	claim.
CLAUSE 19	The contractor shall obtain a valid license under the Contract
Labour Laws to be	Labour (R&A) Act, 1970, and the Contract Labour (Regulation
complied by the	and Abolition) Central Rules, 1971, before the commencement
Contractor	of the work, and continue to have a valid license until the
	completion of the work. The contractor shall also comply with
	provisions of the Inter-State Migrant Workmen (regulation of
	Employment and Condition of Service) Act, 1979. The
	contractor shall also abide by the provisions of the Child Labour
	(Prohibition and Regulation) Act, 1986.
	The contractor shall also comply with the provisions of the
	building and other Construction Workers (Regulation of
	Employment & Conditions of Service) Act, 1996 and the
	building and other Construction Workers Welfare Cess Act,
	1996.
	1//0.

	Any failure to fulfil these requirements shall attract the
	penal provisions of this contract arising out of the resultant non-execution of the work.
CLAUSE 19 A	No labour below the age of fourteen years shall be employed on
CEROSE 17 A	the work.
CLAUSE 19 B	Payment of wages:
Payment of Wages	(i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the MMRCL Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable. (ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his subcontractors in connection with the said work, as if the labour had been immediately employed by him.
	(iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with CPWD contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorizedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
	(iv) (a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified

by their terms of the contract or non-observance of the Regulations.

(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.

In the case of Union Territory of Delhi, however, as the all inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/ 43884-91, dated 31-12-1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.

- (v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made thereunder from time to time.
- (vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the MMRCL Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.
- (vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.
- (viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.

	(ix) The contractor shall ensure that no amount by way
	of commission or otherwise is deducted or
	recovered by the Jamadar from the wage of
	workmen.
CLAUSE 19C	In respect of all labour directly or indirectly employed in the
	work for the performance of the contractor's part of this
	contract, the contractor shall at his own expense arrange for the
	safety provisions as per Safety Code framed from time to time
	and shall at his own expense provide for all facilities in
	connection therewith. In case the contractor fails to make
	arrangement and provide necessary facilities as aforesaid, he
	shall be liable to pay a penalty of Rs.200/- for each default
	and in addition, the Engineer-in- Charge shall be at liberty
	to make arrangement and provide facilities as aforesaid and
	recover the costs incurred in that behalf from the contractor.
CLAUSE 19 D	The contractor shall submit by the 4th and 19th of every month,
	to the Engineer-in-Charge, a true statement showing in respect
	of the second half of the preceding month and the first half of
	the current month respectively: -
	1. the number of labourers employed by him on the work,
	2. their working yours,
	3. the wages paid to them,
	4. the accidents that occurred during the said fornight
	showing the circumstances under which they happened
	and the extent of damage and injury caused by them,
	and
	5. the number of female workers who have been
	allowed maternity benefit according to Clause 19F
	and the amount paid to them.
	Failing which the contractor shall be liable to pay to
	Government, a sum not exceeding Rs.200/- for each default
	or materially incorrect statement. The decision of the
	Divisional Officer shall be final in deducting from any bill due
	to the contractor, the amount levied as fine and be binding on
	the contractor.
CLAUSE 19 E	In respect of all labour directly or indirectly employed in the
CERUSE 17 E	works for the performance of the contractor's part of this
	contract, the contractor shall comply with or cause to be
	complied with all the rules framed by Government from time to
	-
	time for the protection of health and sanitary arrangements for
CLAUSE 10 E	workers employed by the MMRCL and its contractors.
CLAUSE 19 F	Leave and pay during leave shall be regulated as follows:- 1. Leave:
	a. in the case of delivery - maternity leave not
	exceeding 8 weeks, 4 weeks up to and including
	the day of delivery and 4 weeks following that
	day,

	b. in the case of miscarriage - upto 3 weeks from
	the date of miscarriage.
	2. Pay :
	a. in the case of delivery - leave pay during
	maternity leave will be at the rate of the
	women's average daily earnings, calculated on
	total wages earned on the days when full time
	work was done during a period of three months
	immediately preceding the date on which she
	gives notice that she expects to be confined
	or at the rate of Rupee one only a day
	whichever is greater.
	b. In the case of miscarriage - leave pay at the rate
	of average daily earning calculated on the total
	wages earned on the days when full time work
	was done during a period of three months
	immediately preceding the date of such
	miscarriage.
	3. Conditions for the grant of Maternity Leave:
	No maternity leave benefit shall be admissible to a
	woman unless she has been employed for a total period
	of not less than six months immediately preceding the
	date on which she proceeds on leave.
	4. The contractor shall maintain a register of Maternity
	(Benefit) in the Prescribed Form as shown in appendix
	-I and II, and the same shall be kept at the place of work.
CLAUGE 10 C	
CLAUSE 19 G	In the event of the contractor(s) committing a default or breach
	of any of the provisions of the CPWD Contractor's Labour
	Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to
	time or furnishing any information or submitting or filing any
	statement under the provisions of the above Regulations and'
	Rules which is materially incorrect, he/they shall, without
	prejudice to any other liability, pay to the Government a sum
	not exceeding Rs.200/- for every default, breach or furnishing,
	making, submitting, filing such materially incorrect statements
	and in the event of the contractor(s) defaulting continuously in
	this respect, the penalty may be enhanced to Rs.200/- per day
	for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the
	Engineer-in-Charge shall be final and binding on the parties.
	Should it appear to the Engineer-in-Charge that the
	contractor(s) is/are not properly observing and complying
	with the provisions of the CPWD Contractor's Labour
	Regulations and Model Rules and the provisions of the Contract
	Labour (Regulation and Abolition) Act 1970, and the Contract
	Labour (Regulation and Aboutton) Act 1970, and the Contract

		Labour (R& A) Central Rules 1971, for the protection of health
		and sanitary arrangements for work-people employed by the
		contractor(s) (hereinafter referred as "the said Rules") the
		Engineer-in-Charge shall have power to give notice in writing
		to the contractor(s) requiring that the said Rules be complied
		with and the amenities prescribed therein be provided to the
		work-people within a reasonable time to be specified in the
		notice. If the contractor(s) shall fail within the period specified
		```
		in the notice to comply with and/observe the said Rules and
		to provide the amenities to the work-people as aforesaid, the
		Engineer-in-Charge shall have the power to provide the
		amenities hereinbefore mentioned at the cost of the
		contractor(s). The contractor(s) shall erect, make and maintain
		at his/their own expense and to approved standards all necessary
		huts and sanitary arrangements required for his/their work-
		people on the site in connection with the execution of the works,
		and if the same shall not have been erected or constructed,
		according to approved standards, the Engineer-in-Charge shall
		have power to give notice in writing to the contractor(s)
		requiring that the said huts and sanitary arrangements be
		remodelled and/or reconstructed according to approved
		standards, and if the contractor(s) shall fail to remodel or
		reconstruct such huts and sanitary arrangements according
		to approved standards within the period specified in the notice,
		the Engineer-in-Charge shall have the power to remodel or
		reconstruct such huts and sanitary arrangements according to
		approved standards at the cost of the contractor(s).
CLAUSE 19 H		The contractor(s) shall at his/their own cost provide his/their
CLAUSE 1911		labour with a sufficient number of huts (hereinafter referred to
		` `
		as the camp) of the following specifications on a suitable plot of
		land to be approved by the Engineer-in-Charge.
	(i)	(a) The minimum height of each hut at the eaves level shall
		be 2.10m (7 ft.) and the floor area to be provided will
		be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of
		the worker's family staying with the labourer.
		(b) The contractor(s) shall in addition construct suitable
		cooking places having a minimum area of 1.80m x
		1.50m (6'x5') adjacent to the hut for each family.
		(c) The contractor(s) shall also construct temporary latrines
		and urinals for the use of the labourers each on the scale
		of not less than four per each one hundred of the total
		strength, separate latrines and urinals being provided
		for women.
		(d) The contractor(s) shall construct sufficient number of
		bathing and washing places, one unit for every 25
		persons residing in the camp. These bathing and
		washing places shall be suitably screened.
		washing places shall be saltably selection.

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

	(vi) Drainage	The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.
	(vii)	The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.
	(viii) Sanitation	The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.
CLAUSE 19 I		The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.
CLAUSE 19J		It shall be the responsibility of the contractor to see that the building under construction is not occupied by any body unauthorizedly during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by the Deputy General Manager (Civil) whose decision shall be final both with regard to the justification and quantum and be binding on the contractor. However, the Deputy General Manager (Civil), through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.
CLAUSE 19 K Employment of skilled/semi skilled workers		The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/National Institute of construction Management and Research (NICMAR)/National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not

	be less than 20% of total skilled/semi skilled workers required
	in each trade at any stage of work. The contractor shall submit
	number of man days required in respect of each trade, its
	scheduling and the list of qualified tradesmen along with
	requisite certificate from recognized Institute to Engineer in
	charge for approval. Notwithstanding such approval, if the
	tradesmen are found to have inadequate skill to execute the
	work of respective trade, the contractor shall substitute such
	tradesmen within two days of written notice from Engineer-in-
	_
	Charge. Failure on the part of contractor to obtain approval of
	Engineer-in-Charge or failure to deploy qualified tradesmen
	will attract a compensation to be paid by contractor at the rate
	of Rs. 100 per such tradesman per day. Decision of Engineer in
	Charge as to whether particular tradesman possesses requisite
	skill and amount of compensation in case of default shall be
	final and binding.
	Provided always, that the provisions of this clause, shall
	not be applicable for works with estimated cost put to tender
	being less than Rs. 5 crores.
CLAUSE 19L	The ESI and EPF contributions on the part of employer in
Contribution of	respect of this contract shall be paid by the contractor. These
EPF and ESI	contributions on the part of the employer paid by the contractor
	shall be reimbursed by the Engineer-in-charge to the contractor
	on actual basis. The applicable and eligible amount of EPF &
	ESI shall be reimbursed preferably within 7 days but not later
	than 30 days of submission of documentary proof of payment
	provided same are in order.
CLAUSE 20	The contractor shall comply with all the provisions of the
Minimum Wages	Minimum Wages Act, 1948, and Contract Labour (Regulation
Act to be	and Abolition) Act, 1970, amended from time to time and rules
Complied with	framed thereunder and other labour laws affecting contract
Complied with	
CLAUGE 21	labour that may be brought into force from time to time.
CLAUSE 21	The contract shall not be assigned or sublet without the written
Work not to be	approval of the Engineer-in - Charge. And if the contractor
sublet. Action in	shall assign or sublet his contract, or attempt to do so, or
case of insolvency	become insolvent or commence any insolvency proceedings or
	make any composition with his creditors or attempt to do so,
	or if any bribe, gratuity, gift, loan, perquisite, reward or
	advantage pecuniary or otherwise, shall either directly or
	indirectly, be given, promised or offered by the contractor, or
	any of his servants or agent to any public officer or person in the
	employ of Government in any way relating to his office or
	employment, or if any such officer or person shall become in
	any way directly or indirectly interested in the contract, the
	Engineer-
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CLAUSE 22	in-Charge on behalf of the MD, MMRC shall have power to adopt the course specified in Clause 3 hereof in the interest of Government and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.  All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.
CLAUSE 23 Changes in firm's Constitution to be intimated	Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in- Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.
CLAUSE 25 Settlement	All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.  DELETED FOR THIS TENDER.
Settlement of Disputes & Arbitration	However, provisions mentioned in Schedule F shall be applicable.
CLAUSE 26 Contractor to indemnify Govt. against Patent Rights	The contractor shall fully indemnify and keep indemnified the MD, MMRC against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the contractor shall not be liable to indemnify the MD, MMRC if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

CLAUSE 27		When the estimate on which a tender is made includes lump sum
Lumpsum		in respect of parts of the work, the contractor shall be entitled to
Provisions in		payment in respect of the items of work involved or the part of
Tender		the work in question at the same rates as are payable under this
		contract for such items, or if the part of the work in question is
		not, in the opinion of the Engineer-in-Charge payable of
		measurement, the Engineer-in-Charge may at his discretion pay
		the lump-sum amount entered in the estimate, and the certificate
		in writing of the Engineer-in-Charge shall be final and
		conclusive against the contractor with regard to any sum or
		sums payable to him under the provisions of the clause.
CLAUSE 28		In the case of any class of work for which there is no
Action where no		such specifications as referred to in Clause 11, such work
Specifications are		shall be carried out in accordance with the Bureau of Indian
specified		Standards Specifications. In case there are no such
-F		specifications in Bureau of Indian Standards, the work shall be
		carried out as per manufacturers' specifications, if not available
		then as per District Specifications. In case there are no such
		specifications as required above, the work shall be carried out
		in all respects in accordance with the instructions and
		requirements of the Engineer-in-Charge.
CLAUSE 29	(i)	Whenever any claim or claims for payment of a sum of money
Withholding and	(1)	arises out of or under the contract or against the contractor, the
lien in respect of		Engineer-in-Charge or the Government shall be entitled to
sum due from		withhold and also have a lien to retain such sum or sums in
contractor		whole or in part from the security, if any deposited by the
Contractor		contractor and for the purpose aforesaid, the Engineer-in-
		Charge or the Government shall be entitled to withhold the
		security deposit, if any, furnished as the case may be and
		also have a lien over the same pending finalization or
		adjudication of any such claim. In the event of the security being
		insufficient to cover the claimed amount or amounts or if
		no security has been taken from the contractor, the Engineer-
		in-Charge or the Government shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or
		amounts referred to above, from any sum or sums found
		payable or which may at any time thereafter become
		payable to the contractor under the same contract or any
		other contract with the Engineer-in-Charge of the Government
		or any contracting person through the Engineer- in-Charge
		pending finalization of adjudication of any such claim.
		It is an agreed term of the contract that the sum of money
		or moneys so withheld or retained under the lien referred to
		above by the Engineer-in-Charge or Government will be kept
		withheld or retained as such by the Engineer-in-Charge or
		Government till the claim arising out of or under the contract is
		determined by the arbitrator(if the contract is governed by the

		arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.
CLAUSE 29A Lien in respect of claims in other Contracts	(ii)	Government shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the contractor, without any interest thereon whatsoever.  Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Deputy General Manager (Civil) or Assistant General Manager (Civil) on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Deputy General Manager (Civil) or the Assistant General Manager (Civil).  Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the Government or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Government or such other person or persons in respect of payment of a sum of money

	arising out of or under any other contract made by the contra with the Engineer- in-Charge or the Government or with s	
	other person or persons.	
	It is an agreed term of the contract that the sum of mone	v so
	withheld or retained under this clause by the Engineer	
	Charge or the Government will be kept withheld or retaine	
	such by the Engineer-in-Charge or the Government or till	
	claim arising out of the same contract or any other cont	tract
	is either mutually settled or determined by the arbitra	ıtion
	clause or by the competent court, as the case may be and	that
	the contractor shall have no claim for interest or dama	ages
	whatsoever on this account or on any other ground in respec	ct of
	any sum of money withheld or retained under this clause	
	duly notified as such to the contractor.	una
CLAUSE 30	DEALTED FOR THIS TENDER	
Employment of		
coal mining or		
controlled area		
labour not		
permissible		
CLAUSE 31	The contractor(s) shall make his/their own arrangements	
Unfiltered water	water required for the work and nothing extra will be paid	l for
supply	the same. This will be subject to the following conditions.	
	(i) That the water used by the contractor(s) s	
	be fit for construction purposes to the satisfac	tion
	of the Engineer-in-Charge.	
	(ii) The Engineer-in-Charge shall make alterna	ative
	arrangements for supply of water at the risk	and
	cost of contractor(s) if the arrangements made	e by
	the contractor(s) for procurement of water are	e in
		arge,
	unsatisfactory.	8,
CLAUSE 31 A	Water if available may be supplied to the contractor by	the
Departmental	department subject to the following conditions:-	
water supply, if	(i) The water charges @ 1 % shall be recovered	d on
available	gross amount of the work done.	
	(ii) The contractor(s) shall make his/their of	own
	arrangement of water connection and laying	
	pipelines from existing main of source of suppl	_
	(iii) The Department do not guarantee to main	-
	uninterrupted supply of water and it will	
	incumbent on the contractor(s) to make alterna	
	arrangements for water at his/ their own cost in	
	event of any temporary break down in	
	Government water main so that the progress	
	his/their work is not held up for want of wa	ater.

		No claim of damage or refund of water charges
		will be entertained on account of such break down.
CLAUSE 32	(i)	Where there is no piped water supply arrangement and the
Alternate water		water is taken by the contractor from the wells or hand pump
arrangements		constructed by the Government, no charge shall be recovered
arrangements		from the contractor on that account. The contractor shall,
		however, draw water at such hours of the day that it does not
		interfere with the normal use for which the hand pumps and
		wells are intended. He will also be responsible for all
		damage and abnormal repairs arising out of his use, the
		cost of which shall be recoverable from him. The Engineer-
		in-Charge shall be the final authority to determine the cost
		recoverable from the contractor on this account and his decision
		shall be binding on the contractor.
	(ii)	The contractor shall be allowed to construct temporary wells in
	(11)	Government land for taking water for construction purposes
		only after he has got permission of the Engineer-in- Charge in
		writing. No charges shall be recovered from the contractor on
		this account, but the contractor shall be required to provide
		necessary safety arrangements to avoid any accidents or
		damage to adjacent buildings, roads and service lines. He shall
		be responsible for any accidents or damage caused due to
		construction and subsequent maintenance of the wells and shall
		restore the ground to its original condition after the wells are
		dismantled on completion of the work.
CLAUSE 33		Notwithstanding anything contained to the contrary in this
Return of Surplus		contract, where any materials for the execution of the contract
materials		are procured with the assistance of Government either by issue
		from Government stocks or purchase made under orders or
		permits or licences issued by Government, the contractor shall
		hold the said materials economically and solely for the purpose
		of the contract and not dispose of them without the written
		permission of the Government and return, if required by
		the Engineer-in-Charge, all surplus or unserviceable materials
		that may be left with him after the completion of the contract or
		at its termination for any reason whatsoever on being paid or
		credited such price as the Engineer-in-Charge shall determine
		having due regard to the condition of the materials. The price
		allowed to the contractor however shall not exceed the amount
		charged to him excluding the element of storage charges. The
		decision of the Engineer- in-Charge shall be final and
		conclusive. In the event of breach of the aforesaid condition, the
		contractor shall in addition to throwing himself open to action
		for contravention of the terms of the licence or permit and/or
		for criminal breach of trust, be liable to Government for all
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		moneys, advantages or profits resulting or which in the usual
		course would have resulted to him by reason of such breach.
CLAUSE 34	(i)	The contractor shall arrange at his own expense all tools, plant,
Hire of Plant &		machinery and equipment (hereinafter referred to as T&P)
Machinery		required for execution of the work except for the Plant &
Machinery		
		Machinery listed in Schedule 'C' and stipulated for issue to the
		contractor. If the contractor requires any item of T&P on hire
		from the T&P available with the Government over and above
		the T&P stipulated for issue, the Government will, if such item
		is available, hire it to the contractor at rates to be agreed upon
		between him and the Engineer-in-Charge. In such a case, all
		the conditions hereunder for issue of T&P shall also be
		applicable to such T&P as is agreed to be issued.
	(ii)	Plant and Machinery when supplied on hire charges shown
		in Schedule 'C' shall be made over and taken back at the
		departmental equipment yard/shed shown in Schedule 'C' and
		the contractor shall bear the cost of carriage from the place of
		issue to the site of work and back. The contractor shall be
		responsible to return the plant and machinery with condition in
		which it was handed over to him, and he shall be
		responsible for all damage caused to the said plant and
		machinery at the site of work or elsewhere in operation and
		otherwise during transit including damage to or loss of
		plant and for all losses due to his failure to return the same
		soon after the completion of the work for which it was
		issued. The Divisional Engineer shall be the sole judge to
		determine the liability of the contractor and its extent in this
		regard and his decision shall be final and binding on the
		contractor.
	(;;;)	
	(iii)	The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The
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		contractor shall arrange his programme of work according to the
		availability of the plant and machinery and no claim,
		whatsoever, will be entertained from him for any delay in supply
	(; )	by the Department.
	(iv)	The hire charges shall be recovered at the prescribed rates from
		and inclusive of the date the plant and machinery made over
		upto and inclusive of the date of the return in good order even
		though the same may not have been working for any cause
		except major breakdown due to no fault of the contractor or
		faulty use requiring more than three working days continuously
		(excluding intervening holidays and Sundays) for bringing the
		plant in order. The contractor shall immediately intimate in
		writing to the Engineer-in- Charge when any plant or
		machinery gets out of order requiring major repairs as aforesaid.
		The Engineer-in-Charge shall record the date and time of receipt
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(v)	of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this clause, the decision of the Deputy General Manager (Civil) shall be final and binding on the contractor.  The hire charges shown above are for each day of 8 hours (inclusive of the one hour lunch break) or part thereof.
(vi)	Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machinery sign an agreement indemnifying the Department against any loss or damage caused to the plant and machinery either during transit or at site of work.
(vii)	Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one-hour lunch break. In case of an urgent work however, the Engineer-in-Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case, the hourly hire charges for overtime to be borne by the contractor shall be 50% more than the normal proportionate hourly charges (1/8th of the daily charges) subject to a minimum of half day's normal charges on any particular day. For working out hire charges for over time, a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored.
(viii)	The contractor shall release the plant and machinery every seventh day for periodical servicing and/or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the contractor for the day of servicing/ wash out irrespective of the period employed in servicing.
(ix)	The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer-in-Charge, the work or a portion of work for which the same was issued is completed.

(x	()	Log Book for recording the hours of daily work for each
		of the plant and machinery supplied to the contractor will be
		maintained by the Department and will be countersigned by the
		contractor or his authorized agent daily. In case the
		contractor contests the correctness of the entries and/or fails to
		sign the Log Book, the decision of the Engineer- in-Charge shall
		be final and binding on him. Hire charges will be calculated
		according to the entries in the Log Book and will be
		binding on the contractor. Recovery on account of hire
		charges for road rollers shall be made for the minimum number
		of days worked out on the assumption that a roller can
		consolidate per day and maximum quantity of materials or
		area surfacing as noted against each in the annexed statement
		(see attached annexure).
(x	xi)	In the case of concrete mixers, the contractors shall arrange to
	*	get the hopper cleaned and the drum washed at the close of the
		work each day or each occasion.
		a. In case rollers for consolidation are employed
		by the contractor himself, log book for such
		rollers shall be maintained in the same
		manner as is done in case of departmental
		rollers, maximum quantity of any items to
		be consolidated for each roller-day shall also
		be same as in Annexure to Clause 34(x). For
		less use of rollers, recovery for the less roller
		days shall be made at the stipulated issue rate.
(x	(ii)	The contractor shall be responsible to return the plant and
		machinery in the condition in which it was handed over to
		him and he shall be responsible for all damage caused to
		the said plant and machinery at the site of work or elsewhere in
		operation or otherwise or during transit including damage to or
		loss of parts, and for all losses due to his failure to return the
		same soon after the completion of the work for which it was
		issued. The Divisional Engineer shall be the sole judge to
		determine the liability of the contractor and its extent in this
		regard and his decision shall be final and binding on the
		contractor.
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	kiii)	The contractor will be exempted from levy of any hire charges
		for the number of days he is called upon in writing by the
		Engineer-in-Charge to suspend execution of the work, provided
		Government plant and machinery in question have, in fact,
		remained idle with the contractor because of the suspension
(x	kiv)	In the event of the contractor not requiring any item of plant and
		machinery issued by Government though not stipulated for issue
		in Schedule 'C' any time after taking delivery at the place of
		issue, he may return it after two days written notice or at any
		time without notice if he agrees to pay hire charges for two
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CLAUSE 35	(i)	additional days without, in any way, affecting the right of the Engineer-in-Charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.  The contractor undertakes to make arrangement for the supervision of the week by the firm appropriate the tor or histogram.
Condition relating to use of asphaltic materials		supervision of the work by the firm supplying the tar or bitumen used.
	(ii)	The contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-in-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution for reasons other than authorized changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-in-Charge shall be made and the material return to the contractors. Although the materials are hypothecated to Government, the contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-in-Charge in writing.
	(iii)	The contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating to asphaltic work shall be refunded after the expiry of this period.
CLAUSE 36 Employment of Technical Staff & Employees		Contractors Superintendence, Supervision, Technical Staff & Employees
	(i)	The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract. The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the

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

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

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-In-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are

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	(ii)	absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) alongwith every on account bill final bill and shall produce evidence if at any time so required bythe Engineer-in-Charge.  The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.  The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.  The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose
		or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge
		to be undesirable. Such person shall not be employed again at
		works site without the written permission of the Engineer- in-
		Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.
CLAUSE 37		(i) GST, Building and Other Construction Workers
Levy/Taxes		Welfare Cess or any other tax, levy or cess in
payable by		respect of input for or output by this contract shall
Contractor		be payable by the contractor and government shall
		not entertain any claim whatsoever in this respect
		as provided under clause 38.  (ii) The contractor shall deposit royalty and obtain
		(ii) The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone,
		kankar, etc. from local authorities.
		If pursuant to or under any law, notification or order any
		royalty, cess or the like becomes payable by the Government
		of India and does not any time become payable by the contractor
		to the State Government, Local authorities in respect of any
		material used by the contractor in the works, then in such a case,
		it shall be lawful to the Government of India and it will have the
		right and be entitled to recover the amount paid in the
CLAUSE 38		circumstances as aforesaid from dues of the contractor.  (i) All tendered rates shall be inclusive of any tax, levy
CLAUSE 38		(i) All tendered rates shall be inclusive of any tax, levy or cess applicable on the last stipulated date of
		of cess applicable off the fast supulated date of

Conditions for	receipt of tender including extension if any. No		
reimbursement of	adjustment i.e. increase or decrease shall be made		
levy/taxes if	for any variation in the rate of GST, Building and		
levied after	Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.  However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or		
receipt of tenders			
receipt of tenders			
	decrease.		
	Provided further that for Building and Other		
	Construction Workers Welfare Cess or any tax		
	(other than GST), levy or cess varied or imposed		
	after the last date of receipt of tender including		
	extension if any, any increase shall be reimbursed		
	to the contractor only if the contractor necessarily		
	and properly pays such increased amount of		
	taxes/levies/cess.		
	Provided further that such increase including GST		
	shall not be made in the extended period of contract		
	for which the contractor alone is responsible for		
	delay as determined by authority for extension of		
	time under Clause 5 in Schedule f.		
	(ii) The contractor shall keep necessary books of		
	accounts and other documents for the purpose of		
	this condition as may be necessary and shall allow		
	inspection of the same by a duly authorized		
	representative of the Government and/or the		
	Engineer-in-Charge and shall also furnish such		
	other information/document as the Engineer-in-		
	Charge may require from time to time.		
	(iii) The contractor shall, within a period of 30 days		
	of the imposition of any such further tax or levy		
	or cess, give a written notice thereof to the		
	Engineer-in-charge that the same is given pursuant		
	to this condition, together with all necessary		
	information relating thereto.		
CLAUSE 39	Without prejudice to any of the rights or remedies under this		
Termination of	contract, if the contractor dies, the Divisional Officer on behalf		
Contract on death	of the MD, MMRC shall have the option of terminating the		
of contractor	contract without compensation to the contractor.		
CLAUSE 40	The contractor shall not be permitted to tender for works in the		
If relative	MMRCL responsible for award and execution of contracts in which his near relative is posted as Divisional Accountant or as		
working in			
MMRCL then the	an officer in any capacity between the grades of the Deputy		
	General Manager (Civil) and Junior Engineer (both inclusive).		

contractor not	He shall also intimate the names of persons who are working			
allowed to tender	with him in any capacity or are subsequently employed by him			
	and who are near relatives to any Gazetted Officer in the MMRC			
	or in the Ministry of Urban Development. Any breach of this			
	condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If, however the contractor is registered in any other			
	department, he shall be debarred from tendering in MMRC for			
	any breach of this condition.			
	NOTE: By the term "near relatives" is meant wife, husband,			
	parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their			
CLAUCE 41	corresponding in-laws.			
CLAUSE 41	No engineer of Gazetted rank or other Gazetted officer			
No Gazetted	employed in engineering or administrative duties in an			
Engineer to work	engineering department of the Government of India shall			
as Contractor	work as a contractor or employee of a contractor for a			
within one year of	period of one year after his retirement from government			
retirement	service without the previous permission of Government of India			
	in writing. This contract is liable to be cancelled if either the			
	contractor or any of his employees is found at any time to be			
	such a person who had not obtained the permission of			
	Government of India as aforesaid, before submission of the			
	tender or engagement in the contractor's service, as the case			
	may be.			
CLAUSE 42	DELETED FOR THIS TENDER			
Return of material				
& recovery for				
excess material				
issued.				
CLAUSE 43	The work (whether fully constructed or not) and all			
Compensation	materials, machines, tools and plants, scaffolding, temporary			
during warlike	buildings and other things connected therewith shall be at the			
situations	risk of the contractor until the work has been delivered to the			
	Engineer-in-Charge and a certificate from him to that effect			
	obtained. In the event of the work or any materials properly			
	brought to the site for incorporation in the work being damaged			
	or destroyed in consequence of hostilities or warlike operation,			
	the contractor shall when ordered (in writing) by the Engineer-			
	in-Charge to remove any debris from the site, collect and			
	properly stack or remove in store all serviceable materials			
	salvaged from the damaged work and shall be paid at the			
	contract rates in accordance with the provision of this			
	agreement for the work of clearing the site of debris,			
	stacking or removal of serviceable material and for			
	reconstruction of all works ordered by the Engineer-in- Charge,			
	such payments being in addition to compensation upto the value			

	of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Divisional Officer upto Rs.5,000/- and by the Deputy General Manager (Civil) concerned for a higher amount. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.  Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work.
	In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Divisional Officer
CLAUSE 44 Apprentices Act provisions to be complied with	The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the Deputy General Manager (Civil) may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
CLAUSE 45 Release of Security deposit after labour clearance	Release of Security Deposit of the work shall not be refunded till the contractor produces a clearance deposit after labour certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.

# **SAFETY CODE**

- 1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handhold shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1(1/4 horizontal and 1 vertical.)
- 2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
- 4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)
- 5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder upto and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least ¼" for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.

6.

- a. Excavation and Trenching All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
- b. Safety Measures for digging bore holes:-

- If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
- ii. During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work;
- iii. Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m alround the point of drilling to avoid entry of people;
- iv. After drilling the borewell, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;
- v. After the completion of the borewell, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while reparing the pump;
- vi. After the borewell is drilled the entire site should be brought to the ground level.
- 7. Demolition Before any demolition work is commenced and also during the progress of the work,
  - a. All roads and open areas adjacent to the work site shall either be closed or suitably protected.
  - b. No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
  - c. All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
- 8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned:- The following safety equipment shall invariably be provided.
  - a. Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
  - b. Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
  - c. Those engaged in welding works shall be provided with welder's protective eyeshields
  - d. Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - e. When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to:
    - i. Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.

- ii. At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
- iii. Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
- iv. Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.
- v. Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
- vi. The area should be barricaded or cordoned of by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
- vii. No smoking or open flames shall be allowed near the blocked manhole being cleaned.
- viii. The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
- ix. Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time up to which a worker may be allowed to work continuously inside the manhole.
- x. Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
- xi. Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
- xii. The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
- xiii. The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- xiv. Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- xv. If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- xvi. The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
- f. The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the

age of 18 are employed on the work of lead painting, the following precaution should be taken:-

- i. No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
- ii. Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
- iii. Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
- 9. An additional clause (viii)(i) of Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
  - a. White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
  - b. Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
  - c. Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
  - d. Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
  - e. Overall shall be worn by working painters during the whole of working period.
  - f. Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
  - g. Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of MMRCL.
  - h. MMRCL may require, when necessary medical examination of workers.
  - i. Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
- 10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
- 11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:
  - a. (i) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
    - (ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
  - b. Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
  - c. In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine

- having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- d. In case of departmental machines, the safe working load shall be notified by the Electrical Engineer- in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.
- 12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- 14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
- 15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
- 16. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

# Model Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by MMRCL or its Contractors

# 1. APPLICATION

These rules shall apply to all buildings and construction works in charge of MMRCL in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

# 2. DEFINITION

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

#### 3. FIRST-AID FACILITIES

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

- 8. 1 roll of adhesive plaster.
- 9. 1 snake bite lancet.
- 10. 1 (30 gms.) bottle of potassium permanganate crystals.
- 11. 1 pair scissors.
- 12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India.
- 13. A bottle containing 100 tablets (each of 5 gms.) of aspirin.
- 14. Ointment for burns.
- 15. A bottle of suitable surgical antiseptic solution.
- iii. Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- iv. Nothing except the prescribed contents shall be kept in the First-aid box.
- v. The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- vi. A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.
- vii. In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
- viii. Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

#### 4. DRINKING WATER

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

# 5. WASHING FACILITIES

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

# 6. LATRINES AND URINALS

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

ii. Where males are employed, there shall be at least one latrine for every 25 males.

Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.

- b. Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- c. Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- d. (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.
  - (a) The notice shall also bear the figure of a man or of a woman, as the case may be.
- e. There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.
- f. (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
  - (b)Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- g. Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- h. Disposal of excreta: Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- i. The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

# 7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head. Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

#### 8. CRECHES

a. At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and

- the other as their bedroom. The rooms shall be constructed with specifications as per clause 19H (ii) a, b & c.
- b. The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- c. The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- d. The contractor shall provide one ayaa to look after the children in the creche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- e. The use of the rooms earmarked as creches shall be restricted to children, their attendants and mothers of the children.

#### 9. CANTEENS

- a. In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- b. The canteen shall be maintained by the contractor in an efficient manner.
- c. The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- d. The canteen shall be sufficiently lighted at all times when any person has access to it.
- e. The floor shall be made of smooth and impervious materials and inside walls shall be limewashed or colour washed at least once in each year. Provided that the inside walls of the kitchen shall be lime-washed every four months.
- f. The premises of the canteen shall be maintained in a clean and sanitary condition.
- g. Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- h. Suitable arrangements shall be made for the collection and disposal of garbage.
- i. The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time
- j. The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sft) per diner to be accommodated as prescribed in sub-Rule 9.
- k. (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.
  - (b) Washing places for women shall be separate and screened to secure privacy.
- 1. Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule 9.

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- 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipment necessary for the efficient running of the canteen.
- 2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.

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1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.

- 2. A service counter, if provided, shall have top of smooth and impervious material.
- 3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.
- n. The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- o. The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.
- p. In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely:
  - i. The rent of land and building.
  - ii. The depreciation and maintenance charges for the building and equipments provided for the canteen.
  - iii. The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.
  - iv. The water charges and other charges incurred for lighting and ventilation.
  - v. The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.
- q. The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

# 10. ANTI-MALARIAL PRECAUTIONS

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

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

# 12. AMENDMENTS

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

# **CPWD Contractor's Labour Regulations**

#### 1. SHORT TITLE

These regulations may be called the CPWD Contractors Labour Regulations.

# 2. DEFINITIONS

- a. Workman means any person employed by MMRCL or its contractor directly or indirectly through a subcontractor with or without the knowledge of the MMRCL to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person:
  - i. Who is employed mainly in a managerial or administrative capacity: or
  - ii. Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or
  - iii. Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

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

- b. Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
- c. Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.
- d. Wages shall have the same meaning as defined in the Payment of Wages Act.

3.

- a. Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- b. When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.

c.

- Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
- ii. Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

iii. Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

# 4. DISPLAY OF NOTICE REGARDING WAGES ETC.

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

# 5. PAYMENT OF WAGES

- a. The contractor shall fix wage periods in respect of which wages shall be payable.
- b. No wage period shall exceed one month.
- c. The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- d. Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- e. All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- f. Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- g. All wages shall be paid through Bank or ECS or online transfer.
- h. Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.
- j. It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.
- k. The contractor shall obtain from the Junior Engineer or any other authorised representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form:-

"Ce	ertified that the amou	nt shown in column No	has been paid	d to
the	workman concerned	through bank account of	labour on	. at
	"			

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

- a. The wages of a worker shall be paid to him without any deduction of any kind except the following:
  - i. Fines

- ii. Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
- iii. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
- iv. Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
- v. Any other deduction which the Central Government may from time to time allow.
- b. No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.
  - Note: An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-X
- c. No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- d. The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- e. No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.
- f. Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

# 7. LABOUR RECORDS

- a. The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (Appendix IV)
- b. The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (Appendix V).
- c. The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (Appendix VI).
- d. The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
  - i. Full particulars of the labourers who met with accident.
  - ii. Rate of Wages.
  - iii. Sex
  - iv. Age
  - v. Nature of accident and cause of accident.
  - vi. Time and date of accident.
  - vii. Date and time when admitted in Hospital,
  - viii. Date of discharge from the Hospital.
  - ix. Period of treatment and result of treatment.
  - x. Percentage of loss of earning capacity and disability as assessed by Medical Officer.
  - xi. Claim required to be paid under Workmen's Compensation Act.

- xii. Date of payment of compensation.
- xiii. Amount paid with details of the person to whom the same was paid.
- xiv. Authority by whom the compensation was assessed.
- xv. Remarks
- e. The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971 (Appendix-XI). The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed (Appendix-X)
- f. The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (Appendix-XII)
- g. The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIII)
- h. The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIV)

# 8. ATTENDANCE CARD-CUM-WAGE SLIP

- a. The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen form at (Appendix-VII)
- b. The card shall be valid for each wage period.
- c. The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- d. The card shall remain in possession of the worker during the wage period under reference
- e. The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- f. The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

#### 9. EMPLOYMENT CARD

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

#### 10. SERVICE CERTIFICATE

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

# 11. PRESERVATION OF LABOUR RECORDS

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

# 12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

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

# 13. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Assistant General Manager (Civil) concerned indicating the

extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Assistant General Manager (Civil) after the Deputy General Manager (Civil) has given his decision on such appeal.

a. The Assistant General Manager (Civil) shall arrange payments to the labour concerned within 45 days from the receipt of the report form the Labour Officer or the Deputy General Manager (Civil) as the case may be.

# 14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Deputy General Manager (Civil) concerned within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Assistant General Manager (Civil) concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

#### 15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

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

# 16. INSPECTION OF BOOKS AND SLIPS

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

#### 17. SUBMISSIONS OF RETURNS

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

#### 18. AMENDMENTS

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the Deputy General Manager (Civil) concerned shall be final.

# PART B

# MATERIAL AND QUALITY ASSURANCE

- 1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
- 2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in- Charge along with samples and once approved, he shall stick to it.
- 3. The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, and other works as desired by Engineer In Charge for his approval before execution. The contractor shall also submit bar bending schedule for approval of Engineer –in charge before execution.
- 4. Test Laboratories:
  - A. Laboratory at site:

The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in CPWD specifications 2009 Vol. 1 & 2. Nothing extra shall be payable to him on this account. The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose. The laboratory shall be equipped, inter alia, with the following equipment:

- a. Balances:
  - i. 7 kg to 10 kg capacity, semi-self-indicating type Accuracy 10 gm.
  - ii. 500 gm capacity, semi-self-indicating type Accuracy 1 gm.
  - iii. Pan Balance- 5 kg Capacity- Accuracy 10 gm.
- b. Ovens- Electrically operated, thermostatically controlled upto 1100C- Sensitivity 10C.
- c. Sieves: as per IS: 460
  - i. IS Sieves -450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, complete with lid and pan.
  - ii. IS Sieves 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 500 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- d. Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- e. Equipment for slump test-slump cone, steel plate, taping rod, steel scale, scoop.
- f. Equipment for concrete testing
  - i. Concrete cube moulds 15x15x15cm. 18Nos.
  - ii. Pruning Rods 2Kg weight length 40cm and ramming face 25mm 1No.
  - iii. Extra Bottom plates for 15cm cube mould 6Nos.
  - iv. Standard Vibration table for cubes 1No
  - v. Dial gauges 25 mm travel- 0.01 mm/division Least count 1 No.

vi. Compression testing machine of 100 tonne capacity 1 No.

Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.

#### B. Other Laboratories:

B1 The contractor shall arrange carrying out all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including charges for testing for all materials except cement for which separate condition is provided in tender document.

# C. Sampling of Materials:

- C1 Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.
- C2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
- BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.
- C4 The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
- C5 All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
- C6 The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.
- C7 The Stone aggregate/stone, sand shall be brought from any quarries subjected to the said materials confirm CPWD specifications.

- 5. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the Jr. Engineer-in-Charge of work and which shall be duly signed by the contractor or his authorized representative.
- 6. The contractor shall render all help and assistance in documenting the total sequence of this project by way of photography, slides, audio-video recording etc. Nothing extra shall be payable to the contractor on this account and shall be submitted along with running account bills.
- 7. The contractor shall be fully responsible for the safe custody of materials brought by him issued to him even though the materials are under double lock key system.
- 8. Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.
- 9. In case there is any discrepancy in frequency of testing as given in the list of mandatory tests and that in the individual sub-head of work as per CPWD specification 2009 Vol. 1 & 2 the higher of the two frequencies of testing shall be adopted.
- 10. Maintenance of Cement Register:
  - a. All the register of tests to be carried out at construction site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in- Charge in the same manner as being issued to CPWD field staff.
  - b. The test registers to be maintained by the contractor are:
    - i. Materials at site account register.
    - ii. Cement register.
    - iii. Master test registers.
    - iv. Cube test register.
    - v. Paint register.
    - vi. Inspection register.
    - vii. Drawing register.
  - c. All the entries in the register will be made by the designated engineering staff of the contractor and same should be regularly reviewed by concerned engineers of MMRCL.
  - d. Contractor shall be responsible for safe custody of all the test registers.
  - e. Submission of copy of all test registers, material at site register along with each alternate running account bill and final bill shall be mandatory.

# **Additional Conditions for Cement**

- 1. The contractor shall procure Portland Pozzolana Cement conforming to IS: 1489 (Part-I) or Ordinary Portland Cement conforming to IS 8112 (2013) as required in the work, from reputed manufacturers of cement, such as A.C.C., Ultratech, Vikram, Shri cement, Ambuja, Jaypee Cement, Century Cement, J.K. Cement, Birla Cementor from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by ADG for the sub region. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially. Supply of cement shall be made in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of the relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not confirm to the relevant BIS code the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.
- 2. The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-Charge. The cement godown of the capacity to store a minimum of 1000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made
- 3. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
- 4. The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to test laboratories. The cost of tests shall be born by the contractor/department in the manner indicated below:
- a. By the contractor, if the results show that the cement does not conform to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents.
- b. By the department, if the results show that the cement conforms to relevant CPWD Specifications / BIS code or specification mentioned else where in the documents.
- 5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate show prescribed shall be made. In case of excess consumption, no adjustment need to made.
- 6. The cement brought to site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
- 7. The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he dose not do show within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.

# **Additional Condition for Steel Reinforcement**

- The contractor shall procure TMT bars of Fe 500 D grade from primary steel producers such as SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd or any other producer as approved by MMRC who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 million tons per annum and above.
  - a. TMT bars shall meet the provisions of IS 1786: 2008 pertaining to Fe 500 D grade of steel.
- 2. The contractor shall have to obtain vouchers and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 3. Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in the relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 1.1 and 1.2 above, the same shall stand rejected and it shall be removed from the site of work by the contractor at his cost within a week time of written orders from the Engineer-in-charge to do so.
- 4. The steel reinforcement shall be brought to the site in bulk supply of 50 tons or more or as directed by the Engineer-in-charge.
- 5. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion & corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 6. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

a: 01	T 1 1 100	T 1 100
Size of bar	For consignment below 100	For consignment over 100
	tonnes	tonnes
Under 10 mm dia bars	One sample for each 25 tonnes	One sample for each 40 tonnes
	or part thereof	or part thereof
10 mm to 16 mm dia bars	One sample for each 35 tonnes	One sample for each 45 tonnes
	or part thereof	or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes	One sample for each 50 tonnes
	or part thereof	or part thereof

- 7. The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 8. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by the conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 9. The steel brought to the site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge
- 10. Steel bars brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
- 11. In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
- 12. Reinforcement including authorised spacer bars and lappages shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 13. The standard sectional weights referred to as in Table 5.4 under para 5.3.4 in CPWD specifications for works 2009 Vol. 1 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight.
- 14. Records of actual sectional weight shall also be kept dia-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will

- constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as derived actual weight.
- 15. If the derived weight as in para 14 above is lesser than the standard weight as in para 13 above, the derived actual weight shall be taken for payment. If the derived actual weight is found more then the standard weight then the standard weight as worked out in para 13 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.
- 16. Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.
- 17. Tolerances on Nominal Mass (individual sample) shall be as under:-

S.	Nominal size mm	Tolerances on the Nominal
No.		Mass, percentage
1	Upto and including 10	-8%
2	Over 10 upto & including 16	-6%
3	Over 16	-4%

# **General Terms & Condition**

- 1. The order of preference in case of any discrepancy as indicated in condition No. 8.1 under "Conditions of Contract" give in standard CPWD contract form may be read as the following:
  - a. Nomenclature of items as per schedule of quantities.
  - b. Particular specification and special condition, if any.
  - c. CPWD specifications.
  - d. Architectural Drawings
  - e. Indian standard specifications of B.I.S.
  - f. Sound Engineering Practice

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian standard applicable to the work at site.

- 2. Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of items in the schedule of quantities the work shall generally be carried out in accordance with the "CPWD specifications 2009 Vol. 1 and Vol. 2 (with upto date corrections slips). (Hereinafter to be referred to as CPWD specifications) and instructions of Engineer-in-Charge. Wherever CPWD specifications are silent the latest IS codes/specification shall be followed.
- 3. Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
- 4. The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like stone masonry & stone cladding works, stone flooring, structural glazing, PVDF coating aluminium composite panel and other specialized flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.
- 5. a) The contractor (s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.
  - b) The contractor (s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.
- 6. The contractor (s) shall study the soil investigation report for the site, available in the office of the Engineer-in-Charge and satisfy himself about complete characteristics of soil and other parameters of site. However, no claim on the alleged inadequacy or incorrectness of the soil data shall be entertained.
- 7. The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, the same shall be made good, improved and maintained by the contractor at his own cost. No payment shall be made on this account.
- 8. The contractor (s) shall give to the Municipality, Police and other authorities all necessary notices etc. that may be required by law and obtain all requisite Licenses for temporary

- obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain light and other illumination on for cautioning the public at night.
- 9. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit boards red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.
- 10. Contractor shall provide permanent bench marks and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings
- 11. The contractor shall make his own arrangement for obtaining electric connection(s) if required and make necessary payments directly to the department concerned.
- 12. Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
- 13. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.
- 14. The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and adhere by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
- 15. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
- 16. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc. and nothing extra whatsoever shall be payable for the same.
- 17. If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
- 18. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- 19. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
- 20. The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
- 21. The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the

Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.

#### 22. PROGRAMME CHART

- a. The contractor shall prepare an integrated programme chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier as indicated in the mile stones under clause 5 of the contract and submit the same for approval to the Engineer-in-Charge within ten days of the award of the contract.
- b. The program charts should include the following:
  - i. Descriptive note explaining sequence of various activities.
  - ii. Network (PERT/CPM/BAR CHART)
  - iii. Programme for procurement of materials by the contractor
  - iv. Programme of procurement of machinery/equipment's having adequate capacity commensurate with the quantum of work to be done within the stipulated period by the contractor.
- 23. If it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above the contractor shall produce a revised programme showing the modifications to the approved programme to ensure completion of the work within the stipulated time for completion.
- 24. The submission for approval by the Engineer-in-Charge of such programme or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.
- 25. If the work is carried out in more than one shift or during night no claim on this account shall be entertained.
- 26. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- 27. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
- 28. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 29. Any cement slurry added over base surface for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable for extra cement considered in consumption on this account.
- 30. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked/collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
- 31. Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
  - a. The contractor shall submit for the approval of Engineer-in-Charge names of specialized agencies of repute along with their technical capacity proposed to be

- engaged by him, who must have executed satisfactorily works of value as specified in mandatory conditions.
- b. The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there of is complete and unambiguous. The discrepancy, if any shall be brought to the notice of the Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.
- c. The contractor shall take all precautions to avoid accidents by, exhibiting caution boards day and night, speed limit boards, red flags, red light and providing necessary barriers and other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
- d. Other agencies will also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc. for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.
- e. The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
- f. All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.
- 32. Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed
  - Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.
- 33. On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge within 30 days of completion of work. These drawings shall have the following information:

- a. Route of all piping and their diameters including soil waste pipes & vertical stacks.
- b. Ground and invert levels of all drainage pipes together with locations of all manholes and connections upto outfall.
- c. Route of all water supply lines with diameters, location of control valves, access panels etc.
- 34. No extra payment will be made for operation/activity mentioned at Sl. No. 1 to 33 above unless specifically mentioned otherwise.
- 35. Condition regarding secured advance: -

Secured advance shall be admissible only on those bonafide materials which are likely to be used in the work in a period not exceeding six months from the date of secured advance payment. If agency fails to use the material (in respect of which secured advance have been paid) in the work in this specified period of six month, the said component of secured advance shall be recovered from next running account bill paid to the agency. Secured advance on the same material shall not be paid again.

# CONSTRUCTION SPECIFICATION & OTHER CONDITION OF WORK

# A. SCOPE OF WORK

# Contractor's scope of works will be as follows:

Site Location: MMRCL New Office Building, E Block, Bandra Kurla Complex,

Bandra (East), Mumbai - 400051

Repair and maintenance of civil works of New office building of MMRCL will include but will not be limited to:

- 1. Attending blockage of drain pipes, gully traps and manholes.
- 2. Attending the leakage from taps and valves, sanitary fixtures, fixtures for water supply.
- 3. Attending rectification of malfunctioning fittings on doors and windows.
- 4. Occasional replacement of broken glass panes of doors and windows.
- 5. Attending rectification of wall plaster and floors in patchwork.
- 6. Periodical white washing, colour washing, painting and external painting etc.
- 7. Occasional replacement of water supply fittings/sanitary fixtures.
- 8. Periodical cleaning of over-head tanks, underground tanks etc.
- 9. Testing of water for physical, chemical and bacteriological analysis.
- 10. Changing of fly proof mesh in doors, windows and ventilators.
- 11. Only Class-A Brick, fine & coarse sand, reputed brand of cement bag & TMT steel bars should be used as materials.
- 12. All materials shall be tested in lab wherever necessary and the certificate will be provided by agency and submitted at the time of the billing.
- 13. Agency will maintain Manpower Muster Roll & Wage Register.
- 14. Whenever and wherever required, Agency will provide the Civil Engineer at site.
- 15. Agency will provide Uniform, Identity Cards, Name bearing Plates etc. to every deployed Staff.
- 16. All Tools & tackles, Plants, machineries, equipment and materials required to carry out the Civil work at site shall be provided by the Agency at his own cost.
- 17. The Agency shall have to display on signboard, Facility Manager/Engineer/Supervisor's name to be contacted with Telephone Nos, in case in emergency or urgent work required.
- 18. The agency shall be responsible to depute their supervisor on working site.
- 19. The agency shall provide materials (Civil) as per ISI norms and quality mentioned.
- 20. The agency should ensure all safety precautions for its labourers.
- 21. Any other works as and when directed by the authorized person from MMRCL other than mentioned above falling under the domain of Civil Works.
- 22. Contractor's scope of works will be execution of maintenance works, minor works, external works of the entire campus as per the details below:
  - a. CIVIL MAINTENANCE

Repair / replacement in existing concrete / plaster / masonry work, wood work, sewerage work, steel work, plumbing work, road work, painting work, flooring work, roofing work, and interior decoration works; removal of chokages, seepage, leakage, dampness; clearing malba, debris, wild vegetation, excavation of earth for miscellaneous purposes etc., and various preventive maintenance works as ordered by MMRCL as per complaints recorded in complaints register and work orders given by MMRCL from time to time.

#### b. MINOR CIVIL WORK

Addition / alterations / renovations in existing Civil works or execution of new minor civil works involving concrete work (including RCC), Brick work, structural steel work, plumbing work, wood work, earth works, site grading (including soling, sand filling, moorum filling etc.), road work, plastering, interior decoration, furniture and finishing work.

#### **SPECIFICATIONS**

Detailed specifications of various items of work and standards of workmanship will be as per CPWD norms and relevant I. S. Codes, unless noted otherwise. All materials to be used by contractor will be I.S.I. marked and of makes approved by DGM (Civil). Wherever ISI mark is not applicable, material will be got approved by DGM (Civil) before incorporation in the work. Wherever required, manufacturer's specifications and / or DGM (Civil) instructions will also be followed for special products.

#### MANPOWER DEPLOYMENT BY CONTRACTOR

(Routine Maintenance and External Cleaning Gang)

Carpenter(skilled) : 1 No.

Plumber(skilled) : 1 No.

Helper (Unskilled) : 2 Nos.

Supervisor (Graduate) : 1 No.

Total Manpower : 5 Nos.

#### Note: -

- 1. The above regular gang will be brought by the contractor on regular basis. Any extra labour required beyond the above referred regular gang will be brought by Contractor as per the needs of the works and permission from DGM (Civil).
- 2. In case of non-competence of workers observed during execution of works, Contractor will have to replace them as per the instructions of DGM (Civil).
- 3. Supervisor appointed by the Contractor should be a Diploma in Civil Engg. with atleast two years site experience or a Graduate with adequate site experience and should be engaged after DGM (Civil) clearance. He will receive all instructions and input from MMRCL, maintain all records of maintenance and minor works, get the works executed to the satisfaction of MMRCL, prepare the bills and also provide any technical help to MMRCL whenever needed. Supervisor minimum wages will not be less than the min. wages announced by Central Govt. for 'Graduates and above' category.
- 4. Contractor will also keep an experienced supervisor from his side to procure and organize material, labour, tools & tackles at site required for execution of the works given by MMRCL. (Supervisor mentioned in the manpower list will not be disturbed for these works and will be required to stay full time at site only). He will also assist the main supervisor in case of overload of works and will control the site in case of his absence. Wages for this supervisor will be taken into account by the contractor under his overheads. No separate payment will be made to contractor in this regard.

#### 1. GENERAL

These Specifications contained herein shall be read in conjunction with other Bid documents.

The Work shall be carried out in accordance with the "Good for Construction" drawings and as duly approved and stamped by the Employer. The Contractor shall not take cognizance of any drawings, designs, specifications, etc. not bearing the signature and stamp of the Employer. Similarly, the Contractor shall not take cognizance of instructions given by any other Authority except the instructions given by the Employer in writing.

The specifications may have been divided into different sections / sub-heads for convenience only. They do not restrict any cross-references. The Contractor shall take into account inter-relations between various parts of works/trades. No claim shall be entertained on the basis of compartmental interpretations.

#### 2. REFERENCE TO THE STANDARD CODES OF PRACTICE:

The Contractor shall make available at Site all relevant Codes of practice as applicable. Legend:

CPWD Central Public Works Department

IRS Indian Railway Standards

IS Indian Standards

MORT&H Ministry of Road Transport and Highways

RDSO Guidelines for Railway Embankments

# 3. QUALITY ASSURANCE:

- (i) The work shall conform to high standards workmanship and aesthetically pleasing. The Contractor shall conform to the Quality standards prescribed, which shall form the backbone for the Quality Assurance system.
- (ii) The Contractor shall arrange for the proper stacking/storage of the construction materials at Site to ensure the quality requirement. The Contractor shall provide all the necessary equipment and qualified manpower to test the quality of materials, assemblies, etc., as directed by the Employer. The tests shall be conducted at specified intervals and the results of tests properly documented. In addition, the Contractor shall keep appropriate tools and equipment for checking alignments, levels, slopes and evenness of the surfaces.
  - a. The test shall be conducted at nominated Standard Laboratory selected by the Employer.
  - b. All testing shall be performed in the presence of Employer. Testing may be witnessed by the Contractor or his authorized representative if permitted by the Test House. Whether witnessed by the Contractor or not, the test results shall be binding on the Contractor.

The Employer shall have the right at all times to inspect all operations including the sources of materials, procurement, layout and storage of materials, all equipment and the quality control system. Such an inspection shall be arranged and the Employer's approval obtained prior to starting of the particular item of work. This shall however, not relieve the Contractor of his responsibilities. All materials which do not conform to these specifications shall be rejected and shall be removed from the Site immediately. The Employer shall have the powers to cause the Contractors to purchase and use materials from any particular source, as may in the Employer's opinion be necessary for the proper execution of work.

#### 4. DIMENSIONS:

(i) Figured dimensions on drawings shall only be followed and drawings to a large scale shall take precedence over those to a smaller scale. Special dimensions or directions in the specifications shall supersede all others. All dimensions shall be checked prior to execution.

(ii) The levels, measurements and other information concerning the existing Site as shown on the drawings are believed to be correct, but the Contractor shall verify them for himself and also examine the nature of the ground as no claim or allowance whatsoever will be entertained on account of any errors or omissions in the levels or the description of the ground levels or strata turning out different from what was shown on the drawings.

#### 5. SETTING OUT OF WORKS:

The Contractor shall provide suitable stones or steel plates with flat tops and build the same in concrete for temporary bench marks. All the pegs, control pillars for setting out the works and fixing the levels required for the execution shall be built in masonry as directed by the Employer. The Contractor shall protect and preserve all bench marks and control pillars till completion of assigned job. The Contractor shall submit overall survey report and layout of work and get it checked from Employer prior to commencement of work. The cost of all operations of setting out including construction of bench marks is deemed to be included in the quoted rates / Bill of Quantities.

- (i) All the survey work except levelling work shall be carried out using total stations with minimum one second accuracy. The levelling work however, shall be carried out using Auto level.
- (ii) The triangulations points given by the Employer before start of work shall be maintained during execution and handed back to the Employer after completion of work.

#### 6. MATERIALS:

(i) Source of Materials:

It shall be the responsibility of the Contractor to procure all the materials required for the construction and work completion according to the contract. The Contractor shall indicate in writing the source of materials well in advance to the Employer, after the award of the work and before commencing the work. If the material from any source is found to be unacceptable at any time, it shall be rejected by the Employer and the Contractor shall forthwith remove the material immediately from the Site as directed by the Employer.

(ii) Quality:

All materials used in the works shall be new and of the best quality of their respective kinds as specified herein, obtained from sources and suppliers approved by the Employer and shall comply strictly with the tests prescribed hereafter, or where tests are not laid down in the specifications, with the requirements of the latest issues of the relevant Indian Standards.

(iii) Sampling and Testing:

All materials used in the works shall be subjected to inspection and testing in addition to manufacturer's test certificates. Samples of all materials proposed to be used in the permanent works shall be submitted to the Employer at least 30 days in advance for approval before they are brought to the Site. Samples provided to the Employer for their retention are to be labelled and stored.

Materials or workmanship not corresponding in character and quality with approved samples will be rejected by the Employer. Samples required for approval and testing must be supplied sufficiently in advance for the fact that if the first sample is rejected further samples may be required. Delay to the works arising from the late submission of samples will not be acceptable as a reason for delay in completion of the works.

Materials shall also be tested on the Site and they may be rejected; if not found suitable in accordance with the specification, notwithstanding the results of quarry test certificates or any approval given earlier.

(iv) Dispatch of Materials:

Materials shall not be dispatched from the manufacturer's works to the Site without written approval from the Employer.

## (v) Rejection:

Any materials that have not been found to conform to the specifications shall be rejected immediately and shall be removed from the Site by the Contractor at his own cost within two weeks or as instructed by the Employer.

#### 7. STORAGE OF MATERIALS AT SITE:

All materials used in the works shall be stored on racks, supports, in bins, under cover, etc. as appropriate to prevent deterioration or damage from any cause whatsoever and to the entire satisfaction of the Employer.

The storage of materials shall be in accordance with IS 4082 "Recommendation on stacking and storage or construction materials on site" and as per IS 7969 "Safety code for handling and storage of building materials".

The materials shall be stored in a proper manner at places at Site approved by the Employer. In case the place where material is stored by the Contractor is required by the Employer for any other purpose, the Contractor shall immediately remove the material from that place at his own cost and clear the place for the use of the Employer.

#### 8. WATER:

(i) Water from approved source:

Potable water only shall be used for the works. The Contractor shall have his own source of water duly approved by Employer. The water shall be free from any deleterious matter in solution or in suspension and be obtained from an approved source. The quality of water shall conform to IS 456.

(ii) Storage:

The Contractor shall make his own arrangements for storing water, if necessary, in drums or tanks as approval by the Employer. Care shall be taken to see that water is not contaminated.

(iii) Testing:

Before starting any concreting work with new water source and wherever the source of water changes, the water shall be tested for its chemical and other impurities to ascertain its suitability for the use in concrete. No water shall be used until tested, and approved by the Employer. Cost of all such Tests shall be borne by the Contractor.

#### 9. WORKMANSHIP:

- (i) All works shall be true to level, plumb and square and the corners, edges and arises in all cases shall be unbroken and neat.
- (ii) Any work not to the satisfaction of the Employer or his representative will be rejected.
- (iii) Rejected work shall be removed and replaced or rectified with work of the required standard of workmanship at the discretion of Employer at no extra cost.

# 10. STRUCTURAL WORK:

- (i) Unless specified, only controlled concrete with design mix and weigh batching shall be used for the work.
- (ii) Minimum cement content specified in IS: 456-2000 specification is purely from durability point of view. Larger content of cement shall have to be provided if required by mix design.
- (iii) Provision of cement slurry to create bond between plain / reinforced concrete surface and subsequent applied finishes shall not be paid extra.
- (iv) Mix design using smaller aggregates of 10mm down shall also be done in advance for the use in the locations having congested reinforcement.

- (v) Procedure of mixing the admixtures shall be strictly as per the manufacturer's recommendation if not otherwise directed by the Employer.
- (vi) All the water tanks and other liquid retaining concrete structures shall undergo hydraulic testing.
- (vii) Special benches shall be provided at Site for stacking reinforcement bars of different sizes.
- (viii) Formwork for beams of RCC areas shall be designed in such a way that the formwork of the adjacent structures can be removed without disturbing the props / supports of the beams.
- (ix) Wherever there are tension / suspended concrete members which are suspended from upper level structural members, the shuttering / scaffolding of such members at lower level shall have to be kept in place till the time the upper level supporting members gain minimum required strength. Cost of such larger duration of keeping in place the shuttering/scaffolding shall be deemed to be included in the rates quoted for respective structural members.
- (x) Formwork is required for full height at all locations. Special precaution for such tall formwork shall be taken to ensure its safety. Extra costs for such formwork shall be deemed to have been included in the rates quoted against relevant items.
- (xi) During the mobilization period, the Contractor shall carry out expeditiously and without delay the following works:
  - i. Material testing and mix designs of concrete as contemplated in the specifications.
  - ii. Any other pre-requisite items required for final execution.
  - iii. Site office for the use of the Employer staff.

# 11. SUPPLY OF PROGRESS PHOTOGRAPHS AND ALBUMS:

The work covers the supply of colour photographs and albums to serve as a permanent record of various stages/facets of work needed for an authentic documentation as approved by the Employer. The photographs shall be of acceptable quality and they shall be taken by a professionally competent photographer with camera having the facility to record the date of the photographs taken in the prints and the negative. Each photograph in the album shall be suitably captioned and dated. The photographs and materials including soft copy shall form a part of the records for the Employer and prints of the same cannot be supplied to anybody else or published without the written permission of the Employer.

# 12. SURVEY WORK:

The said work involves at the very start of work taking-over of reference point from the Employer, establishment of control points, triangulation points, bench marks, grid layout for all the structures maintaining horizontal and vertical control within the permissible limits, incorporating changes (if any), submission of full data in the tabulation form and survey drawings during the progress of work.

#### 13. BARRICADING:

The work covers barricading for the work/site areas provided/allotted for construction of various works/structures/ storage and other working area. Barricading shall be done by the Contractor at his own cost. The detailed scope of work is as follows:

- a. Providing and installing the barricade as per the design and type as shown in the typical sketch furnished as per the approved plan to be installed firmly to the ground and maintaining it during the progress of work for the entire Contract period.
- b. Lateral shifting of barricading if required for satisfactory execution of various works at Depot.
- c. Dismantling of barricading and other temporary installations from the Site and cleaning the Site as per direction of Employer upon completion and acceptance of work.

#### 14. SUB-CONTRACTOR / SPECIALIZED FIRMS:

Works as listed below and those dealing with proprietary materials/ products/equipment may be carried out by the Contractor through the Sub-Contractors / Specialized Firms as may be approved by the Employer in writing. The Sub-Contractors / Specialized Firms must be firms of repute and long standing, having adequate experience and have complete facilities to carry out all items of work required for completion as per Specifications and expected quality to the satisfaction of the Employer. Contractor shall obtain approval of Employer in advance prior to nominating their subcontracting, specialized firm for carrying out works.

List of Works to be executed by Specialized Agencies:

- (i) Water Proofing Works
- (ii) Structural Glazing
- (iii) Aluminum Composite Paneling
- (iv) External Painting

# 15. APPLICABLE CODES, STANDARDS & PUBLICATIONS FOR EARTHWORK, STRUCTURAL & ARCHITECTURAL WORK:

The more important Codes, Standards and Publications to Contract are listed here under:

#### A. General

IS:2720 - (Part-I to part-XXXII) - Method of test for soils

SP 7 National Building Code of India

SP 23 (S&T) Hand Book on Concrete Mixes

#### B. Bitumen

IS:3384 Specification for bitumen primer for use in waterproofing and damp-proofing

## C. Building Construction Practices

IS: 1838 Parts I and II.

Specifications for preformed fillers for expansion joint in concrete pavements and structures.

IS: 11134 Code of Practice for setting out of buildings.

IS: 11433 Parts I and II. Specifications for one part Gun grade poly-sulphide based joint sealant

#### D. Cement

IS: 455 Portland Slag Cement

IS: 650 Specification for standard sand for testing cement

IS: 1489 (Part 1) Portland pozzolana cement: Fly ash based

IS: 6925 Methods of test for determination of water soluble chlorides in concrete admixtures.

IS: 8042 White Portland Cement

IS: 8112 Specification for 43 grade ordinary Portland cement

IS: 12269 Specification for 53 grade ordinary Portland cement

IS: 12330 Specification for sulphate resistant Portland cement

## E. Concrete

IS:456 Code of practice for plain and reinforced concrete

IS:460 (Parts I to III) Specification for Test Sieves

IS:516 Methods of test for strength of concrete

IS:1199 Methods of sampling & analysis of concrete

IS:1200 Method of measurement of building and civil engineering

# LIST OF PREFERRED MAKES FOR CIVIL WORKS

Admixture Ceramic/glazed Tiles White Cement Trimers, paints (Low VOC) (i/c Vater proofing cement paint) etc. Tutty Vash Basin and WC PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun Tipes & fittings/Sand cast iron Tipes DI Pipes & fittings Teass / CP Brass fittings	Approved Manufacture/ Brand Name  SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd. and Jindal Saw Ltd.  A.C.C., Ultratech, Vikram, Shree cement, Ambuja, Jaypee Cement, Century Cement, Prism& J.K. Cement  Fosroc, Sika, CICO  Kajaria, RAK, NITCO  Birla White, J.K. White or equivalent  Nerolac, Asian, Burger, ICI  Birla, J.K. Putty  Parryware, Hindware, Johnson, Jaquar  Modi Guard, Saint Gobain, AIS  Tata, Jindal (HISAR), Prakash Surya, APL Apollo  UNIK, NVR, Zoloto  NECO, Electro Steel, SKF  Kesoram, Electrosteel, Tata Ductura, Jindal
Cement (PPC/OPC)  Admixture Ceramic/glazed Tiles White Cement Trimers, paints (Low VOC) (i/c Vater proofing cement paint) etc. Tutty Wash Basin and WC PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun Tipes & fittings/Sand cast iron Tipes DI Pipes & fittings	Jindal Saw Ltd.  A.C.C., Ultratech, Vikram, Shree cement, Ambuja, Jaypee Cement, Century Cement, Prism& J.K. Cement Fosroc, Sika, CICO Kajaria, RAK, NITCO Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI  Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Admixture  Ceramic/glazed Tiles  White Cement  rimers, paints (Low VOC) (i/c  vater proofing cement paint) etc.  utty  Vash Basin and WC PAN  Clear glass  G.I. pipes  G.I. fittings  Centrifugally Cast Iron Spun  tipes & fittings/Sand cast iron  tipes  DI Pipes & fittings	A.C.C., Ultratech, Vikram, Shree cement, Ambuja, Jaypee Cement, Century Cement, Prism& J.K. Cement Fosroc, Sika, CICO Kajaria, RAK, NITCO Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Admixture  Ceramic/glazed Tiles  White Cement  rimers, paints (Low VOC) (i/c  vater proofing cement paint) etc.  utty  Vash Basin and WC PAN  Clear glass  G.I. pipes  G.I. fittings  Centrifugally Cast Iron Spun  tipes & fittings/Sand cast iron  tipes  DI Pipes & fittings	Cement, Century Cement, Prism& J.K. Cement Fosroc, Sika, CICO Kajaria, RAK, NITCO Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI  Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Ceramic/glazed Tiles White Cement Trimers, paints (Low VOC) (i/c Vater proofing cement paint) etc. White PAN White PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun Tipes & fittings/Sand cast iron Tipes DI Pipes & fittings	Fosroc, Sika, CICO Kajaria, RAK, NITCO Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI  Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Ceramic/glazed Tiles White Cement Trimers, paints (Low VOC) (i/c Vater proofing cement paint) etc. White PAN White PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun Tipes & fittings/Sand cast iron Tipes DI Pipes & fittings	Kajaria, RAK, NITCO Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI  Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
White Cement Frimers, paints (Low VOC) (i/c Frater proofing cement paint) etc. Futty Fush Basin and WC PAN Flear glass F.I. pipes F.I. fittings Fentrifugally Cast Iron Spun Fipes & fittings/Sand cast iron Fipes For Pipes & fittings	Birla White, J.K. White or equivalent Nerolac, Asian, Burger, ICI  Birla, J.K. Putty  Parryware, Hindware, Johnson, Jaquar  Modi Guard, Saint Gobain, AIS  Tata, Jindal (HISAR), Prakash Surya, APL Apollo  UNIK, NVR, Zoloto  NECO, Electro Steel, SKF
rimers, paints (Low VOC) (i/c vater proofing cement paint) etc. vater proo	Nerolac, Asian, Burger, ICI  Birla, J.K. Putty  Parryware, Hindware, Johnson, Jaquar  Modi Guard, Saint Gobain, AIS  Tata, Jindal (HISAR), Prakash Surya, APL Apollo  UNIK, NVR, Zoloto  NECO, Electro Steel, SKF
Vater proofing cement paint) etc.  Putty  Vash Basin and WC PAN  Clear glass  G.I. pipes  G.I. fittings  Centrifugally Cast Iron Spun  tipes & fittings/Sand cast iron  tipes  DI Pipes & fittings	Birla, J.K. Putty Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Vash Basin and WC PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun tipes & fittings/Sand cast iron ipes DI Pipes & fittings	Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Vash Basin and WC PAN Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun cipes & fittings/Sand cast iron cipes DI Pipes & fittings	Parryware, Hindware, Johnson, Jaquar Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Clear glass G.I. pipes G.I. fittings Centrifugally Cast Iron Spun tipes & fittings/Sand cast iron tipes DI Pipes & fittings	Modi Guard, Saint Gobain, AIS Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
G.I. pipes G.I. fittings Centrifugally Cast Iron Spun tipes & fittings/Sand cast iron tipes DI Pipes & fittings	Tata, Jindal (HISAR), Prakash Surya, APL Apollo UNIK, NVR, Zoloto NECO, Electro Steel, SKF
G.I. fittings Centrifugally Cast Iron Spun ipes & fittings/Sand cast iron ipes DI Pipes & fittings	UNIK, NVR, Zoloto NECO, Electro Steel, SKF
Centrifugally Cast Iron Spun ipes & fittings/Sand cast iron ipes DI Pipes & fittings	NECO, Electro Steel, SKF
ipes & fittings/Sand cast iron ipes DI Pipes & fittings	
ipes DI Pipes & fittings	Kesoram Electrosteel Tata Ductura Lindal
OI Pipes & fittings	Kesoram Flectrosteel Tata Ductura Lindal
_	Kesoram Flectrosteel Tata Ductura Tindal
Proce / CD Proce fittings	
	Essco or equivalent
	Hindalco, Jindal, Indian Aluminium Co.
	WEBER, FOSROC, PIDILITE, CICO, Sika
	Neelkanth, Nirali, Jayna, PRAYAG
	ECO BOARD, MERINO or equivalent
	Parryware, Hindware, Johnson
	Sintex, Vectus or as approved by Engineer-in-Charge.
	Saint Gobain, Modi Guard
	As approved by Engineer-in-Charge
_	Parryware, Hindware, Johnson, Cera
	As approved by Engineer-in-Charge
	Kajaria, RAK, NITCO Asian, Burger, Nerolac, Dulux
•	
	Century, TATA Marine, Kitply,vGreenply Shakti metdoor, Navair, Bhawani firevdoors
	Lafarge, Saint Gobain
C	Saint Gobain, Armstrong
_	Aerolite or equivalent as approved by Engineer-in-Charge
	Dorma, Godrej, Hardwyn
	Saint Gobain, ASI
• •	Jaint Godani, Abi
	Pilkington, Schott, Ferilite
_	Earl Bihari (Ebco), Godrej
-	Haru, Anand, Ravon, Zero
	GE Plastics, Dow corning, Wacker
	Dorma, Doorset or equivalent
	luminium sections Vater proofing compound vainless steel sink article board i/c lamination vastic W.C. seat cover vC tanks vC tanks vC flushing cistern ville Fixer / Adhesive vitreous Floor Tiles vcrylic Exterior Paint vish door shutter ver rated doors value ceiling- Gypsum value ceiling- Metal value ceiling- Calcium silicate voor spring vermetically sealed performance value ass & toughened glass ver rated vision panel viction stay vc pDM Gasket veel items

# Form of Performance Security (Guarantee) Bank Guarantee Bond

	sideration of the MD, MMRC (hereinafter called "The MMRC") having offered to accept ms and conditions of the proposed agreement betweenand
• /	as a security/guarantee from the contractor(s) for compliance of his obligations in ance with the terms and conditions in the said agreement.
1.	We,
2.	(Rupees
	demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees
3.	We, the said bank further undertake to pay the MMRC any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
4.	We,
5.	accordingly discharges this guarantee.  We,

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

6.

7.

# <u>SCHEDULE OF QUANTITIES – CIVIL WROKS</u>

S. No.	Description of Item	Quant	ity	Rate (Rs)	Unit	Amount (Rs)
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
a)	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2.00	Cum	997.05	One Cubic Metre	1994.10
b)	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5.00	Cum	615.15	One Cubic Metre	3075.75
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge					0.00
a)	In cement mortar	10.00	Cum	842.75	One Cubic Metre	8427.50
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:					0.00
a)	Of area 3 sq. metres and below	10.00	No.	157.85	Each	1578.50
b)	Of area beyond 3 sq. metres	10.00	No.	216.40	Each	2164.00
4	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:					0.00
a)	Of area 3 sq. metres and below	5.00	No.	61.25	Each	306.25
b)	Of area beyond 3 sq. metres	5.00	No.	81.00	Each	405.00

5	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	10.00	No.	290.55	Each	2905.50
6	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	10.00	No.	170.15	Each	1701.50
7	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50metres lead including refilling the excavated gap.	1.00	No.	397.15	Each	397.15
8	Dismantling of flushing cistern of all types (C.I./PVC/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	15.00	No.	391.20	Each	5868.00
9	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	2.00	No.	307.85	Each	615.70
10	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	200.00	Sqm	22.40	One Square Metre	4480.00

11	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	100.00	Sqm	24.30	One Square Metre	2430.00
12	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	25.00	Cum	120.55	One Cubic Metre	3013.75
13	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.  Note - item to be applicable in urban areas having directions for restricted hours for movement/ plying of load carrying motor vehicle of 3.5 cum or more.	25.00	Cum	209.90	One Cubic Metre	5247.50
14	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift up to 1.5 m, as directed by Engineer-in-Charge:					0.00
a)	All kinds of soil	30.00	Sqm	53.00	One Square Metre	1590.00

15	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m,as directed by Engineer-in-Charge.					0.00
a)	All kinds of soil	20.00	Cum	125.95	One Cubic Metre	2519.00
16	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50 m and lift up to 1.5m, as directed by Engineer-in-Charge.					0.00
a)	Ordinary rock	10.00	Cum	221.05	One Cubic Metre	2210.50
17	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					0.00
a)	All kinds of soil.	10.00	Cum	166.40	One Cubic Metre	1664.00

18	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.					0.00
a)	Ordinary rock	5.00	Cum	275.85	One Cubic Metre	1379.25
19	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m:					0.00
a)	All kinds of soil					0.00
(i)	Pipes, cables etc, not exceeding 80 mm dia.	100.00	m	138.05	One Metre	13805.00
20	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m:					0.00

a)	Ordinary rock :					0.00
(i)	Pipes, cables etc. not exceeding 80 mm dia.	100.00	m	194.50	One Metre	19450.00
21	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	50.00	Cum	125.75	One Cubic Metre	6287.50
22	Excavating, supplying and filling of local earth (including royalty) by mechanical transport up to a lead of 5 km, also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc., complete.	10.00	Cum	229.80	One Cubic Metre	2298.00
23	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift upto 1.5 m.					0.00
a)	All kinds of soil.	1000.00	Sqm	13.95	One Square Metre	13950.00
24	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	1000.00	Sqm	3.65	One Square Metre	3650.00
25	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					0.00
a)	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	5.00	Cum	5924.65	One Cubic Metre	29623.25

b)	1:4:8 (1 Cement : 4 coarse sand(zone-III) : 8 graded stone aggregate 40 mm nominal size).	10.00	Cum	4478.15	One Cubic Metre	44781.50
26	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing:					0.00
a)	1:1½:3 (1 cement : 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	5.00	Cum	6990.40	One Cubic Metre	34952.00
27	Centering and shuttering including strutting, propping etc. and removal of form work for :					0.00
a)	Columns, piers, abutments, pillars, posts and struts.	100.00	Sqm	467.85	One Square Metre	46785.00
28	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:					0.00
a)	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	2.00	Cum	7145.80	One Cubic Metre	14291.60

29	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	2.00	Cum	7390.80	One Cubic Metre	14781.60
30	Centering and shuttering including strutting, propping etc. and removal of form for :					0.00
a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	50.00	Sqm	342.90	One Square Metre	17145.00
b)	Columns, Pillars, Piers, Abutments, Posts and Struts.	50.00	Sqm	467.85	One Square Metre	23392.50
c)	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	50.00	Sqm	193.95	One Square Metre	9697.50
31	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size), including centering and shuttering complete but, excluding cost of reinforcement.	1.00	Cum	9534.25	One Cubic Metre	9534.25
32	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto and above plinth level.					0.00

a)	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	100.00	Kg	56.60	One Kilogram	5660.00
33	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					0.00
a)	Cement mortar 1:4 (1 cement : 4 coarse sand)	20.00	Cum	5801.50	One Cubic Metre	116030.00
34	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					0.00
a)	Cement mortar 1:4 (1 cement :4 coarse sand)	50.00	Sqm	684.20	One Square Metre	34210.00
35	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	90.00	Sqm	56.85	One Square Metre	5116.50
36	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.	10.00	Cum	6818.60	One Cubic Metre	68186.00

37	Marble work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of cramps, which shall be paid for separately).					0.00
a)	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.					0.00
(i)	Area of slab upto 0.50 sqm	10.00	Sqm	2903.65	One Square Metre	29036.50
38	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement: 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					0.00
a)	Granite of any colour and shade					0.00
(i)	Area of slab upto 0.50 sqm	10.00	Sqm	3351.95	One Square Metre	33519.50

39	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete	10.00	Sqm	231.50	One Square Metre	2315.00
40	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia. & length (hold fast lugs or dash fastener shall be paid for separately).					0.00
a)	Second class teak wood	1.00	Cum	92743.05	One Cubic Metre	92743.05
41	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.					0.00
a)	Second class teak wood					0.00
(i)	35 mm thick shutters	20.00	Sqm	2548.15	One Square Metre	50963.00
42	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					0.00

a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	30.00	Sqm	2488.95	One Square Metre	74668.50
b)	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS: 3818 marked with necessary screws.	20.00	Sqm	2129.10	One Square Metre	42582.00
43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					0.00
a)	Fixed to openings /wooden frames with rawl plugs screws etc.	50.00	Kg	112.45	One Kilogram	5622.50
44	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm all complete.					0.00
a)	With 12 mm mild steel U beading.	20.00	Sqm	597.00	One Square Metre	11940.00
45	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete:					0.00
a)	300x16 mm	10.00	No.	154.85	Each	1548.50
b)	250x16 mm	10.00	No.	142.05	Each	1420.50
46	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :					0.00
a)	250x10 mm	10.00	No.	313.20	Each	3132.00
b)	200x10 mm	10.00	No.	251.50	Each	2515.00
c)	150x10 mm	10.00	No.	193.45	Each	1934.50

d)	100x10 mm	10.00	No.	132.10	Each	1321.00
47	Providing and fixing bright finished brass door latch with necessary screws etc. complete:					0.00
a)	300x16x5 mm	10.00	No.	227.05	Each	2270.50
b)	250x16x5 mm	10.00	No.	215.40	Each	2154.00
48	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	5.00	No.	678.40	Each	3392.00
49	Providing and fixing chromium plated brass night latch of approved quality with necessary screws etc. complete.	10.00	No.	730.70	Each	7307.00
50	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality with necessary screws etc. complete.					0.00
a)	Size 40 mm	10.00	No.	168.50	Each	1685.00
51	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	10.00	No.	107.20	Each	1072.00
52	Providing and fixing chromium plated brass handles with necessary screws etc. complete:					0.00
a)	125 mm	20.00	No.	211.85	Each	4237.00
53	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete:					0.00
a)	125x85x5.5 mm (heavy type)	10.00	No.	205.95	Each	2059.50
b)	100x85x5.5 mm (heavy type)	10.00	No.	162.45	Each	1624.50
c)	75x65x4 mm (heavy type)	10.00	No.	132.85	Each	1328.50

54	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS: 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	10.00	No.	414.45	Each	4144.50
55	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm (both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre.					

	The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.					
a)	75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I	550.00	Sqm	1309.65	One Square Metre	720307.50
56	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.					0.00
a)	Triple strip vertical type	50.00	No.	28.45	Each	1422.50
57	Welding by gas or electric plant including transportation of plant at site etc. complete.	5000.00	cm	2.85	One Centimetre	14250.00

58	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	500.00	Kg	472.40	One Kilogram	236200.00
59	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.					
a)	E.R.W. tubes.	100.00	Kg	118.05	One Kilogram	118.00
60	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1 cement: 4 coarse sand):					
a)	25 mm thick.	50.00	Sqm	1158.10	One Square Metre	57905.00

61	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	50.00	Sqm	1238.20	One Square Metre	61910.00
62	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.					0.00
a)	Size of Tile 600x600 mm	50.00	Sqm	1135.20	One Square Metre	56760.00
63	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					
a)	Size of Tile 600x600 mm	50.00	Sqm	1169.55	One Square Metre	58477.50

64	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.					
a)	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc	20.00	Sqm	5006.10	One Square Metre	100122.00
65	Providing and fixing removable raised / false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of					

a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.		
b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.		

	c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange).					
	The panel should be corrosion resistant epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and, an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-incharge. All specification must be printed on the side of the panel to ensure the quality of the product.					
a)	300 mm Finished Floor Height (FFH)	10.00	Sqm	4024.50	One Square Metre	40245.00

b)	450 mm Finished Floor Height (FFH).	10.00	Sqm	4275.40	One Square Metre	42754.00
66	12 mm cement plaster of mix :					0.00
a)	1:4 (1 cement: 4 coarse sand)	10.00	Sqm	180.85	One Square Metre	1808.50
67	20 mm cement plaster of mix :					0.00
a)	1:4 (1 cement: 4 coarse sand)	10.00	Sqm	252.40	One Square Metre	2524.00
68	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	200.00	Sqm	118.70	One Square Metre	23740.00
69	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.					0.00
a)	New work (two or more coats) over and including water thinnable priming coat with cement primer.	200.00	Sqm	93.70	One Square Metre	18740.00
70	Finishing walls with water proofing cement paint of required shade :					0.00
a)	New work (Two or more coats applied @ 3.84 kg/10 sqm).	500.00	Sqm	58.80	One Square Metre	29400.00
71	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					0.00

a)	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution.	100.00	Sqm	84.00	One Square Metre	8400.00
72	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.					0.00
a)	100 mm diameter pipes	50.00	m	40.55	One Metre	2027.50
b)	150 mm diameter pipes	50.00	m	60.40	One Metre	3020.00
73	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					0.00
a)	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	100.00	Sqm	112.30	One Square Metre	11230.00
74	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade:					0.00
a)	Two or more coats on new work.	100.00	Sqm	76.50	One Square Metre	7650.00
75	French spirit polishing :					0.00
a)	Two or more coats on new works including a coat of wood filler.	10.00	Sqm	209.75	One Square Metre	2097.50

76	Lettering with black Japan paint of approved brand and manufacture	5000.00	units	2.70	per letter per cm height	13500.00
77	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					0.00
a)	With cement mortar 1:4 (1cement: 4 coarse sand).	200.00	Sqm	274.80	One Square Metre	54960.00
78	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.					0.00
a)	Door chowkhats .	5.00	No.	852.70	Each	4263.50
b)	Window chowkhats .	5.00	No.	529.50	Each	2647.50

79	Fixing chowkhat in existing opening in brick / RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	5.00	No.	157.95	Each	789.75
80	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/rubbish to the nearest municipal dumping ground, all complete as per directions of Engineer-In-Charge.					0.00
a)	For door/ window/ clerestory window.	10.00	Sqm	546.25	One Square Metre	5462.50
81	Supplying and fixing new wooden fillets wherever necessary:					0.00
a)	2nd class teak wood fillets .	10.00	m	38.65	One Running Metre	386.50
82	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	10.00	kLtr	104.30	One Kilo Litre	1043.00
83	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete.	10.00	No.	211.15	Each	2111.50
84	Providing and fixing 85x42mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.	10.00	No.	205.95	Each	2059.50

85	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :					0.00
a)	Old work (one or more coats) .	200.00	Sqm	33.35	One Square Metre	6670.00
86	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	200.00	Sqm	10.80	One Square Metre	2160.00
87	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					0.00
a)	Old work (one or more coats) .	200.00	Sqm	43.60	One Square Metre	8720.00
88	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :					0.00
a)	One or more coats on old work.	200.00	Sqm	55.25	One Square Metre	11050.00
89	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					0.00
a)	One or more coats on old work.	200.00	Sqm	51.30	One Square Metre	10260.00
90	French spirit polishing :					0.00

a)	One or more coats on old work.	100.00	Sqm	105.85	One Square Metre	10585.00
91	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin :					0.00
a)	32 mm dia.	20.00	No.	62.65	Each	1253.00
92	Finishing walls with Acrylic Smooth exterior paint of required shade :					0.00
a)	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface).	200.00	Sqm	68.95	One Square Metre	13790.00

93	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia. M.S. tube 1.5m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc. wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	250.00	Sqm	160.15	One Square Metre	40037.50
94	Cleaning and de-silting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	100.00	No.	47.55	Each	4755.00

95	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial de-silting of manholes and de-chocking of sewer lines. De-chocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.	1000.00	Metre	217.80	One Metre	217800.00
96	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-					0.00
	(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits.					0.00
	(ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.					0.00
	(iii) Chlorination of RCC internal surface by liquid chlorine.					0.00
	(iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.					0.00
	(v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	200.00	Sqm.	40.70	One Square Metre	8140.00

97	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-incharge.	5.00	No.	138.40	Each	692.00
98	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	5.00	No.	55.45	Each	277.25
99	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes within 50 metres lead as per direction of Engineer- in-Charge.					0.00
	(a) Internal Work - Exposed on wall	50.00	Metre	2.00	One Metre	100.00
100	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	5.00	No.	176.40	Each	882.00
101	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					0.00
a)	W.C. pan with ISI marked white solid plastic seat and lid	5.00	No.	3418.70	Each	17093.50

102	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required:					0.00
a)	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	10.00	No.	6187.40	Each	61874.00
103	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					0.00
a)	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	5.00	No.	2298.55	Each	11492.75
104	Providing and fixing Stainless Steel A Isis 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required:					0.00
a)	Kitchen sink with drain board					0.00
(i)	510x1040 mm bowl depth 250 mm.	2.00	No.	4120.80	Each	8241.60
105	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	5.00	No.	1363.65	Each	6818.25

106	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	20.00	No.	254.80	Each	5096.00
107	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.					0.00
a)	10 litre capacity - White	5.00	No.	831.50	Each	4157.50
108	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.					0.00
a)	10 litre (full flush) capacity-white	5.00	No.	1452.90	Each	7264.50
109	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :					0.00
a)	White solid plastic seat with lid	10.00	No.	410.20	Each	4102.00
110	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	10.00	No.	795.15	Each	7951.50
111	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.					0.00
	(a) 15 mm nominal dia	5.00	No.	4715.75	Each	23578.75
112	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:					0.00
a)	Flat back wash basin of size 630x450 mm.	5.00	No.	969.30	Each	4846.50
113	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					0.00
a)	Flexible pipe					0.00

(i)	32 mm dia	5.00	No.	73.25	Each	366.25
114	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:					0.00
a)	Rectangular shape 453x357 mm	5.00	No.	752.80	Each	3764.00
b)	Rectangular shape 1500x450 mm	5.00	No.	1323.10	Each	6615.50
115	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	20.00	No.	573.30	Each	11466.00
116	Providing and fixing toilet paper holder :					0.00
a)	C.P. brass	10.00	No.	385.35	Each	3853.50
117	Providing and fixing soil, waste and vent pipes :					0.00
a)	100 mm dia.					0.00
(i)	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989.	5.00	m	921.65	One Running Metre	4608.25
b)	75 mm diameter :					0.00
(i)	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	5.00	m	794.55	One Running Metre	3972.75
118	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 ( 1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :					0.00
a)	75 mm dia pipe	5.00	No.	72.95	Each	364.75
b)	100 mm dia pipe	5.00	No.	85.95	Each	429.75

119	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :					0.00
a)	For 100 mm dia. Pipe	5.00	No.	167.35	Each	836.75
b)	For 75 mm dia. Pipe	5.00	No.	165.05	Each	825.25
120	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					0.00
a)	100 mm dia					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	384.90	Each	1924.50
b)	75 mm dia					0.00
(i)	Sand cast iron S&S as per IS- 3989	5.00	No.	317.85	Each	1589.25
121	Providing and fixing plain bend of required degree.					0.00
a)	100 mm dia					0.00
(i)	Sand cast iron S&S as per IS: 3989	5.00	No.	334.95	Each	1674.75
b)	75 mm dia					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	248.20	Each	1241.00
122	Providing and fixing heel rest sanitary bend					0.00
a)	100 mm dia					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	370.95	Each	1854.75
b)	75 mm dia					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	312.05	Each	1560.25
123	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:					0.00

a)	100x100x100x100 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	762.15	Each	3810.75
b)	75x75x75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	596.65	Each	2983.25
124	Providing and fixing double equal plain junction of required degree.					0.00
a)	100x100x100x100 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	747.30	Each	3736.50
b)	75x75x75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	558.30	Each	2791.50
125	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.					0.00
a)	100x100x100 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	623.00	Each	3115.00
b)	75x75x75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	472.35	Each	2361.75
126	Providing and fixing single equal plain junction of required degree :					0.00
a)	100x100x100 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	575.40	Each	2877.00
b)	75x75x75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	405.00	Each	2025.00
127	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:					0.00
a)	100x100x75x75 mm					0.00

(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	1035.35	Each	5176.75
128	Providing and fixing double unequal plain junction of required degree:					0.00
a)	100x100x75x75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	956.35	Each	4781.75
129	Providing and fixing sand cast iron S&S off sets as per IS: 3989.					0.00
a)	75 mm off sets					0.00
(i)	With 75 mm dia pipe	5.00	No.	283.05	Each	1415.25
b)	150 mm off sets					0.00
(i)	With 75 mm dia pipe	5.00	No.	363.40	Each	1817.00
(ii)	With 100 mm dia Pipe	5.00	No.	485.40	Each	2427.00
130	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete:					0.00
a)	100 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	512.65	Each	2563.25
b)	75 mm					0.00
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	381.75	Each	1908.75
131	Providing and fixing terminal guard:					
a)	100 mm					
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	333.80	Each	1669.00
b)	75 mm					
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	265.60	Each	1328.00
132	Providing and fixing collar:					
a)	100 mm					
(i)	Sand cast iron S&S as per IS - 3989	5.00	No.	351.20	Each	1756.00
b)	75 mm					

(i)	Sand cast iron S&S as per IS- 3989	5.00	No.	219.15	Each	1095.75
133	Providing lead caulked joints to sand cast					
	iron/centrifugally cast (spun) iron pipes and fittings of					
	diameter:					
a)	100 mm	5.00	No.	309.95	Each	1549.75
b)	75 mm	5.00	No.	263.60	Each	1318.00
134	Providing and fixing M.S. stays and clamps for sand cast					
	iron/centrifugally cast (spun) iron pipes of diameter :					
a)	100 mm	5.00	No.	62.00	Each	310.00
b)	75 mm	5.00	No.	56.55	Each	282.75
135	Providing and fixing PTMT Waste Coupling for wash basin					0.00
	and sink, of approved quality and colour.					0.00
a)	Waste coupling 31 mm dia of 79 mm length and 62 mm	10.00	No	02.55	Co ob	025 50
	breadth weighing not less than 45 gms.	10.00	No.	82.55	Each	825.50
136	Providing and fixing PTMT liquid soap container 109 mm					
	wide, 125 mm high and 112 mm distance from wall of					
	standard shape with bracket of the same materials with	5.00	No.	137.85	Each	689.25
	snap fittings of approved quality and colour, weighing not					
	less than 105 gms.					
137	Providing and fixing PTMT shelf 440 mm long, 124 mm					
	width and 36 mm height of approved quality and colour.	5.00	No.	470.35	Each	2351.75
	Weighing not less than 300 gms.					
138	Providing and fixing PTMT 15 mm Urinal spreader size					
	95x69x100 mm with 1/2" BSP thread and shapes.	5.00	No.	106.50	Each	532.50
	Weighing not less than 60 gms.					
139	Providing and fixing PTMT urinal cock of approved quality					2.55
	and colour.					0.00
				1		

a)	15 mm nominal bore, 80 mm long. 42 mm high and 30 mm wide with BSP female threads weighing not less than 48 gms.	5.00	No.	143.95	Each	719.75
140	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	5.00	No.	9685.70	Each	48428.50
141	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. : Internal work - Exposed on wall					0.00
a)	15 mm nominal outer dia. Pipes.	10.00	metre	142.95	One Running Metre	1429.50
b)	20 mm nominal outer dia. Pipes.	10.00	metre	179.95	One Running Metre	1799.50
c)	25 mm nominal outer dia .Pipes.	10.00	metre	216.20	One Running Metre	2162.00

d)	32 mm nominal outer dia. Pipes.	10.00	metre	289.05	One Running Metre	2890.50
e)	40 mm nominal outer dia. Pipes.	10.00	metre	385.50	One Running Metre	3855.00
f)	50 mm nominal outer dia. Pipes.	10.00	metre	548.55	One Running Metre	5485.50
142	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. :Concealed work, including cutting chases and making good the walls etc.					0.00
a)	15 mm nominal outer dia .Pipes.	10.00	metre	246.20	One Running Metre	2462.00
b)	20 mm nominal outer dia .Pipes.	10.00	metre	284.85	One Running Metre	2848.50
c)	25 mm nominal outer dia .Pipes.	10.00	metre	333.60	One Running Metre	3336.00

d)	32 mm nominal outer dia .Pipes.	10.00	metre	412.90	One Running Metre	4129.00
143	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. : Internal work – Exposed on wall.					0.00
a)	15 mm dia. nominal bore	20.00	metre	186.40	One Running Metre	3728.00
b)	20 mm dia. nominal bore	20.00	metre	224.15	One Running Metre	4483.00
c)	25 mm dia. nominal bore	20.00	metre	247.85	One Running Metre	4957.00
d)	32 mm dia. nominal bore	20.00	metre	308.35	One Running Metre	6167.00
e)	40 mm dia. nominal bore	20.00	metre	394.15	One Running Metre	7883.00
f)	50 mm dia. nominal bore	20.00	metre	472.40	One Running Metre	9448.00
144	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe including painting with anticorrosive bitumastic paint, cutting chases and making good the wall:					0.00

a)	15 mm dia. nominal bore	10.00	metre	285.70	One Running Metre	2857.00
b)	20 mm dia. nominal bore	10.00	metre	316.20	One Running Metre	3162.00
145	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design:					
a)	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	5.00	No.	1195.35	Each	5976.75

146	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :					
a)	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	5.00	No.	11842.75	Each	59213.75
147	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.					
a)	Circular tank	10000.00	Litre	7.25	One Litre	72500.00
148	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931:					0.00
a)	15 mm nominal bore.	5.00	No.	371.70	Each	1858.50
149	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					0.00
a)	15 mm nominal bore.	5.00	No.	545.95	Each	2729.75
150	Providing and fixing PTMT bib cock of approved quality and colour.					0.00

a)	15 mm nominal bore, 165 mm long. Weighing not less than 110 gms.	5.00	No.	157.90	Each	789.50
151	Providing and fixing PTMT stop cock of approved quality and colour.					0.00
a)	Concealed stop cock, 15 mm nominal bore, 108mm long. Weighing not less than 108 gms.	5.00	No.	161.40	Each	807.00
152	Providing and fixing PTMT pillar cock of approved quality and colour .					0.00
a)	15mm nominal bore, 125 mm long foam flow. Weighing not less than 120 gms.	5.00	No.	186.30	Each	931.50
153	Providing and fixing PTMT grating of approved quality and colour.					0.00
a)	Circular type.					0.00
(i)	100 mm nominal dia.	1.00	No.	32.75	Each	32.75
(ii)	125 mm nominal dia with 25 mm waste hole.	1.00	No.	45.55	Each	45.55
b)	Rectangular type with openable circular lid.					0.00
(i)	150 mm nominal size square 100 mm diameter of the inner hinged round grating.	1.00	No.	150.05	Each	150.05
154	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.					0.00
a)	100 mm diameter C.I. pipe	5.00	m	1029.70	100 Metre	5148.50
b)	150 mm diameter C.I. pipe	5.00	m	1547.80	100 Metre	7739.00
c)	200 mm diameter C.I. pipe	5.00	m	2070.15	100 Metre	10350.75

155	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					0.00
a)	100 mm diameter	5.00	m	216.25	One Running Metre	1081.25
b)	150 mm diameter	5.00	m	327.05	One Running Metre	1635.25
c)	200 mm diameter	5.00	m	423.35	One Running Metre	2116.75
d)	250 mm diameter	5.00	m	692.50	One Running Metre	3462.50
e)	300 mm diameter	5.00	m	788.70	One Running Metre	3943.50
156	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:					0.00
a)	150 mm diameter S.W. pipe	5.00	m	761.85	One Running Metre	3809.25

b)	200 mm diameter S.W. pipe	5.00	m	888.10	One Running Metre	4440.50
c)	250 mm diameter S.W. pipe	5.00	m	1027.00	One Running Metre	5135.00
157	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :					0.00
a)	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.(Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :					0.00
(i)	With Sewer bricks conforming to IS: 4885	2.00	No.	8743.70	Each	17487.40
158	Extra depth for circular type manhole 0.91 m internal dia (at bottom) beyond 0.91 m to 1.67 m					0.00

a)	With Sewer bricks conforming IS: 4885	0.00	m	5020.95	One Running Metre	0.00
159	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :					0.00
a)	With 20x20 mm square bar	5.00	No.	267.95	Each	1339.75
160	Supplying and fixing C.I. cover without frame for manholes:					0.00
a)	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg.	5.00	No.	2749.80	Each	13749.00
b)	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg.	5.00	No.	5891.20	Each	29456.00
161	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately):					0.00

a)	For fixed portion					0.00
(i)	Powder coated aluminium (minimum thickness of powder coating 50 micron)	200.00	Kg	384.50	One Kilogram	76900.00
b)	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					0.00
(i)	Powder coated aluminium (minimum thickness of powder coating 50 micron)	200.00	Kg	444.90	One Kilogram	88980.00
162	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.					0.00
a)	Pre-laminated particle board with decorative lamination on both sides.	50.00	Sqm	866.60	One Square Metre	43330.00
163	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					0.00
a)	With float glass panes of 4.0 mm thickness	50.00	Sqm	741.50	One Square Metre	37075.00

164	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS: 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-incharge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).	30.00	Kg	478.85	One Kilogram	14365.50
165	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer -in-charge.	40.00	No.	55.20	Each	2208.00

166	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge.					0.00
a)	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC 15)	5.00	Kg	455.85	One Kilogram	2279.25
167	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-incharge complete.					0.00
a)	Upto 5mm depth and 5 mm width	10.00	m	62.45	One Running Metre	624.50
168	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.					0.00
a)	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	10.00	No.	509.30	Each	5093.00

169	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	10.00	No.	359.00	Each	3590.00
170	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).	5.00	Kg	315.10	One Kilogram	1575.50
171	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge					0.00
a)	Powder coated minimum thickness 50 micron aluminium	10.00	No.	68.30	Each	683.00
172	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately).	5.00	Sqm	4608.85	One Square Metre	23044.25
173	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/Stone/wood/Ceramic/Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-incharge complete complying to ASTM C920, DIN 18540-F & ISO 11600.					

a)	Upto 10 mm depth and 10 mm width	10.00	m	133.20	One Running Metre	1332.00
b)	Upto 20 mm depth and 20 mm width	10.00	m	245.85	One Running Metre	2458.50
174	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of:					
	i) I st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.					
	<ul><li>ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement:</li><li>3 coarse sand) mixed with water proofing compound in recommended proportions</li></ul>					
	iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.					
a)	Using rough kota stone.	50.00	Sqm	1017.55	One Square Metre	50877.50

175	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm(minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1cement: 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge:					0.00
a)	Using rough Kota stone	50.00	Sqm	1253.30	One Square Metre	62665.00
176	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :					
	i) Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.					
	ii) IInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand)mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.					
	iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7Kg. per sqm of area.					

	iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	50.00	Sqm	505.90	One Square Metre	25295.00
177	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre,					

	shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:					
a)	12.5 mm thick tapered edge gypsum moisture resistant board.	350.00	Sqm	958.65	One Square Metre	335527.50
178	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	5.00	Cum	5503.80	One Cubic Metre	27519.00

179	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	20.00	Sqm	499.65	One Square Metre	9993.00
180	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/ laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer in-Charge.					
a)	60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern	850.00	Sqm	756.15	One Square Metre	642728.00
181	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					

a)	1.00 mm thick with zinc coating not less than 275gm/m ²	50.00	Sqm	957.95	One Square Metre	958.00
182	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.					
a)	0.80 mm thick with zinc coating not less than 275gm/m ²	50.00	m	608.35	One Running Metre	608.00
183	Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete :					
a)	1.60 mm thick with zinc coating not less than 350gm/m ²	50.00	m	1115.00	One Running Metre	1115.00
184	Providing flat iron brackets 50x3mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.	20.00	m	50.10	One Running Metre	50.00
	LABOUR SUPPLY					
185	Carpenter 1 per day for 2 years excluding sundays	626	Days	673.00	per day	421298.00
186	Beldar 2 per day for 2 years excluding sundays	1252	Days	553.00	per day	692356.00
187	Plumber with tools I st class 1 per day for 2 years excluding sundays	626	Days	673.00	per day	421298.00
188	Mistry / Supervisor 1 per day for 2 years excluding sundays	626	Days	673.00	per day	421298.00

Subtotal	6,961,888.30
Add 5% Contingency	348,094.42
Total	7,309,982.72

NOTE: The above prices are based on CPWD DSR 2016 and are inclusive of all prevailing taxes, cesses, overheads, contingencies and contractor's profit.

All relevant appear	ndices published	l by CPWD Go	eneral Conditi	ons of Contra	ct
shall be applicabl	e.				

## FORM 'A'

# FINANCIAL INFORMATION

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

- b. Gross Annual turnover on construction works.
- c. Profit/Loss.
- 2. Financial arrangements for carrying out the proposed work.
- 3. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

Signature of Chartered Accountant with Seal

Signature of Bidder(s).

# FORM 'B'

# FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK

This	is	to	certify	that	to	the	best	of	our	knowledge	and	information	that	M/s.
Sh										hav	ing m	arginally note	d add	ress, a
custo	mer	of	our bank	are/i	s res	spect	able a	nd c	an be	treated as go	ood fo	or any engage	ment	upto a
limit								Rs		. <b></b> .				
(Rupe	ees.												)	

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

(Signature)
For the Bank

# NOTE:

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

FORM 'C'

DETAILS OF ALL WORKS OF SIMILAR CLASS COMPLETED DURING THE LAST SEVEN YEARS ENDING LAST DAY OF THE MONTH JUNE 2018

S.	Name	Owner	Cost	Date of	Stipulat	Actual	Litigation/	Name and	Rema
No.	of	or	of	commence	ed date	date of	Arbitration	address /	rks
	work/pr	sponsori	wor	ment as per	of	complet	cases	telephone	
	oject	ng	k in	contract	complet	ion	pending/in	number of	
	and	organiza	cror		ion		progress	officer to	
	location	tion	es of				with	whom	
			rupe				details*	reference	
			es					may be	
								made	
1	2	3	4	5	6	7	8	9	10

# NOTE: The above works shall be accompanied by WORK ORDERS, LETTERS OF EXTENSIONS (if any) and COMPLETION CERTIFICATES mandatorily.

Signature of Bidder(s)

# FORM 'D' PROJECTS UNDER EXECUTION OR AWARDED

S.	Name	Owner	Cost of	Date of	Stipulat	Upto	Slow	Name and	Rema
No.	of	or	work	commen	ed date	date	progress if	address /	rks
	work/pr	sponsori	(in	cement	of	percent	any and	telephone	
	oject	ng	crores	as per	complet	age	reasons	number of	
	and	organiza	of	contract	ion	progres	thereof	officer to	
	location	tion	rupees)			s of		whom	
						work		reference	
								may be	
								made	
1	2	3	4	5	6	7	8	9	10

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

Signature of Bidder(s)

^{*} Indicate gross amount claimed and amount awarded by the Arbitrator.

## FORM 'F'

## STRUCTURE & ORGANISATION

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

Organisation/Place of registration	Registration No
1	
2.	
3.	

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

Signature of Bidder(s)

S.	Designati	Total	Numbe	Nam	Qualificatio	Profession	How	Remark
N	on	Numb	r	e	ns	al	these	S
o		er	availabl			experience	would	
			e for			and details	be	
			this			of work	involve	
			work			carried	d in	
							this	
							work	
1	2	3	4	5	6	7	8	9

Signature of Bidder(s)

FORM 'H'

DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT LIKELY TO BE USED IN CARRYING OUT THE WORK

S.	Name	No	Capaci	Ag	Conditi	Ownership status			Curre	Remar
N	of	S.	ty or	e	on				nt	ks
o.	equipm		type					locati		
	ent							on		
						Present	Leas	To be		
						ly	ed	purchas		
						owned		ed		
1	2	3	4	5	6	7	8	9	10	11

# TENDER DRAWINGS





# FURNITURE LAYOUT FOR FIRST FLOOR PLAN

(SCALE - 1:100)