## GOVERNMENT OF MADHYA PRADESH JABALPUR SMART CITY LIMITED

### **FOR**

# <u>Development of Multi-Sports Complex at Wright Town, Jabalpur,</u> <u>Madhya Pradesh (Phase–1)</u>

### **Appendix 2.10 Tender Document**

NIT Number and Date	: JSCL/2018/42/ADM/80 Date 11/01/2018
Agreement Number and Date	:
Name of Work	:Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya Pradesh (Phase -1)
Name of the Contractor	:
Probable Amount of Contract (Rs. In Figure)	: ₹ 35,16,00,000/-
(Rs. In Words)	:Rupees Thirty Five Crores Sixteen lacs only
Contract Amount (Rs. In Figure)	:
(Rs. In Words)	:
Stipulated Period of Completion	: 15 Months (including rainy season)

# Appendix 2.10 Tender Document

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# Jabalpur Smart City Limited CIN-U75100MP2016SGC035536

Ref. No. - JSCL/2018/42/ADM/80

Dated: 11/01/2018

### NOTICE INVITING TENDER

Jabalpur Smart City Limited invites online proposal for "Development of Multi-Sports Complex (Phase–1) at Wright Town, Jabalpur (M.P.) **Detail Information can be downloaded from** www.mpeproc.gov.in and www.jscljabalpur.org

Contact - 7611136807, 7611136815

Executive Director

Jabalpur Smart City Limited

Tenders reference number	
Date of Pre Bid Meeting	05/02/2018 Time 15.00 Hrs
Last date for purchase the Tender	22/02/2018 Till 17.30 Hrs
Last date of online submission	26/02/2018 Till <b>1730 Hrs</b>
Date of opening of online technical bid	27/02/2018
Last date of physical submission	01/03/2018 Till <b>1730 Hrs</b>
Date of opening of Financial bid	06/03/2018
Tender document Cost	₹ 50000.00
Earnest Money Deposit	₹ 17,58,000.00



### **Jabalpur Smart City Limited**

CIN - U75100MP2016SGC035536

Ref. No. JSCL/2018/42/ADM/80

Date :- 11/01/2018

### NOTICE INVITING TENDER

Jabalpur Smart City Limited invites online proposal for "Development of Multi-Sports Complex (Phase-1) at Wright Town, Jabalpur (M.P.) Detail Information can be downloaded from www.mpeproc.gov.in and www.jscljabalpur.org Contact: 7611136807, 7611136815

> Executive Director Jabalpur Smart City Limited

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JABALPUR SMART CITY LIMITED

Ref. No. JSCV 2018/ 42/ ADM/ 80/ Dt. 11.01.2018

NOTICE INVITING TENDER

Jabalpur Smart City Limited invites online Proposals for "
Development of Multi-Sports Complex (Phase-1) at Wright
Town, Jabalpur (M.P.) Detail Information can be downloa
ded from www.mpeproc.gov.in and www.jscljabalpur.org".

Contact- 7611136807, 7611136815

Executive Director, Jabaipur Smart City Limited

15.01.18 DAINIKBHASKAR

Jabalpur



### Jabalpur Smart City Limited

CIN- U75100MP2016SGC035536

Ref. No. JSCL/2018/42/ADM/80

Dated: 11/01/2018

### NOTICE INVITING TENDER

Jabalpur Smart City Limited invites online proposal for "Development of Multi-Sports Complex (Phase-1) at Wright Town, Jabalpur (M.P.) Detail Information can be downloaded from www.mpeproc.gov.in and www.jscljabalpur.org Contact- 76:11136807, 7611136815

> Executive Director Jabalpur Smart City Limited

The Indian EXPRESS Sun, 14 January 2018 epaper editions epaper indianexpress.com

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### **SECTION 1**

# NOTICE INVITING TENDER JABALPUR SMART CITY LIMITED

Office of The Executive Director, JABALPUR SMART CITY LIMITED, Jabalpur (M.P.)

N.I.T.NO JSCL/2018/42/ADM/80

: Date 11<sup>th</sup> January 2018

Online percentage rate bids for the following works are invited from registered contractors and firms of repute fulfilling registration criteria:

S. No.	Name of Work	Probable Amount of Contract (Rs. in Lacs.)	Earnest Money Deposit (EMD) (In lacs)	Cost of Bid Document (In Rupees)	Centralized	Period of Completion (in Months)
1.	Development of Multi- Sports Complex at Wright Town, Jabalpur, Madhya Pradesh(Phase-1)	Rs.3516.00 Lacs	Rs 17.58 Lacs	50000.00	As per Required	15 Months (Including Rainy Season)

- 1. All details relating to the Bid Document(s) can be viewed and downloaded free of cost on the website http://mpeproc.gov.in
- 2. Bid Document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/internet banking.
- **3.** At the time of submission of the Bid the eligible bidder shall be required to:
  - i) Pay the cost of Bid Document;
  - ii) Deposit the Earnest Money;
  - iii) Submit a check list; and
  - iv) Submit an affidavit.

Details can be seen in the Bid Data Sheet

### 4. ELIGIBILITY FOR BIDDERS:

(a) At the time of submission of the Bid the bidder should have valid registration

with the Government of Madhya Pradesh, PWD in appropriate class. However, such bidders who are not registered with the Government of Madhya Pradesh and are eligible for registration can also submit their bids after having applied for registration with appropriate authority.

- (b) The bidder would be required to have valid registration at the time of signing of the Contract.
- (c) Failure to sign the contract by the selected bidder, for whatsoever reason, shall result in forfeiture of the earnest money deposit.
- **5. Pre-qualification** Prequalification conditions, wherever applicable, are given in the Bid Data Sheet.
- **6. Special Eligibility** Special Eligibility Conditions, if any, are given in the Bid Data Sheet.
- 7. The Bid Document can be purchased only online from 17.30 Hrs on 15-01-2018 to time 1730 Hrs on 22/02/2018. The key dates may be seen in bid data sheet.
- 8. The Pre Bid meeting will be held on **05**<sup>th</sup> **Feb 2018 at 15:00 Hrs (03:00 pm)** onwards at JSCL Office, Manas Bhawan, Wright Town, Jabalpur
- The price schedule is prepared on the basis of following Schedule of Rates UADD 2012 Vol I,II & III, MP PWD 2014,DSR PAR 2012, DSR 2016, Goa Schedule of Rates 2015, E-DSR Maharashtra 2013-14 & all amendments upto the date of submission of bid.
- **9.** Amendments to NIT, if any, would be published on website only, and not in newspaper.

(Signature and Designation)

### **SECTION 2**

### **INSTRUCTIONS TO BIDDERS (ITB)**

### A. GENERAL

Jabalpur Smart City Limited proposes to Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya Pradesh in 2 Phases. The proposed Phase I works of the project includes following works

Pavilion Building / Grand Stand works which will include :-

- 1. Grand Stand with covered seating of 1000 spectators
- 2. Players Locker Rooms, dining area & Lounge
- 3. VIP/VVIP Lounge & Corporate Boxes
- 4. Media center with dining area
- 5. TV Broadcasting and control room
- 6. Commentators Room with sound system
- 7. Indoor Games
  - a. Badminton Court
  - b. Squash Court
  - c. Table Tennis
  - d. Billiards & Pool Table
  - e. Board Games like Chess etc
  - f. Gynmasium

### 1. SCOPE OF BID

The detailed description of work, hereinafter referred as 'work', is Development of Multi Sports Complex at Wright Town, Jabalpur, Madhya Pradesh (Phase-1). The initial period of 2 years after completion shall be treated as Defect Liability Period (DLP).

### 2. GENERAL QUALITY OF WORK:

The work shall have to be executed in accordance with the technical specifications specified in the Bid Data sheet/ Contract Data, and shall have to meet high standards of workmanship, safety and security of workmen and works.

### 3. PROCEDURE FOR PARTICIPATION IN E-TENDERING

The procedure for participation in e-tendering is given in the Bid Data Sheet.

### 4. ONE BID PER BIDDER

- 4.1 The bidder can be an individual entity or a joint venture (if permitted as per Bid Data Sheet). In case the J.V. is permitted, the requirement of joint venture shall be as per the Bid Data Sheet.
- 4.2 No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand

disqualified.

4.3 In case of Bid submitted by the Joint Venture only lead member should be essentially registered in appropriate class of Registration with the Government of Madhya Pradesh or registered with Central Government / State Government / PSUs but The lead member would be required to have valid registration with MPPWD in appropriate class at the time of signing of the Contract.

### 5. Cost of Bidding

The bidder shall bear all costs associated with the preparation and submission of his bid, and no claim whatsoever for the same shall lie on the Government.

### 6. Site Visit and examination of works

The bidder is advised to visit and inspect the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the work. All costs in this respect shall have to be borne by the bidder.

### **B. Bid Documents**

### 7. CONTENT OF BID DOCUMENTS

The Bid Document comprises of the following documents:

- 1. NIT with all amendments
- 2. Instructions to Bidders, Bid Data Sheet with all Annexures
- 3. Conditions of Contract:
  - i. Part I General Conditions of Contract and the Contract Data with all Annexures; and
  - ii. Part II Special Conditions of Contract.
- 4. Specifications
- 5. Drawings
- 6. Priced Bill of Quantities
- 7. Technical and Financial Bid
- 8. Letter of Acceptance
- 9. Agreement, and
- 10. Any other document(s), as specified.
- 8. The bidder is expected to examine carefully all instructions, conditions of contract, the contract data, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Bidder shall be solely responsible for his failure to do so.

#### 9. PRE-BID MEETING

Wherever the Bid Data Sheet provides for pre-bid meeting:

- 9.1 Details of venue, date and time would be mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid meeting would be communicated on the website only, and intimation to bidders would not be given separately.
- 9.2 Any prospective bidder may raise his queries and/or seek clarifications in writing before or during the pre-bid meeting. The purpose of such meeting is to clarify issues and answer questions on any matter that may be raised at that stage. The Employer may, at his option, give such clarifications as are felt necessary.
- 9.3 Minutes of the pre-bid meeting including the gist of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.
- 9.4 Pursuant to the pre-bid meeting if the Employer deems it necessary to amend the Bid Document, it shall be done by issuing amendment to the online NIT.

### 10. AMENDMENT OF BID DOCUMENTS

- 10.1 Before the deadline for submission of bids, the Employer may amend or modify the Bid Documents by publication of the same on website.
- 10.2 All amendments/corrigendum's shall form part of the Bid Document.
- 10.3 The Employer may, at its discretion, extend the last date for submission of bids by publication of the same on the website.

### C. Preparation of Bid

11. The bidders have to prepare their bids online, encrypt their Bid Data in the Bid Forms and submit Bid Seals (Hashes) of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice Inviting e-Tenders after signing of the same by the Digital Signature of their authorized representative.

### 12. DOCUMENTS COMPRISING THE BID

The bid submitted online by the bidder shall be in the following parts:

- **Part 1** This shall be known as Online **Envelope A** and would apply for all bids. Online **Envelop A** shall contain the following as per details given in the Bid Data Sheet:
  - i) Registration number or proof of application for registration and organizational details in format given in the Bid Data Sheet.

- ii) Payment of the cost of Bid Document;
- iii) Earnest Money; and
- iv) An affidavit duly notarized.

Part 2 – This shall be known as Online Envelope B and required to be submitted only in works where pre-qualification conditions and/or special eligibility conditions are stipulated in the Bid Data Sheet. Online Envelop B shall contain a self-certified sheet duly supported by documents to demonstrate fulfilment of pre-qualification conditions.

Part 3 – This shall be known as Online Envelope C and would apply to all bids. Envelop C shall contain financial offer in the prescribed format enclosed with the Bid Data Sheet.

### 13. LANGUAGE

The bid as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer shall be in English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English. In such case, for the purposes of interpretation of the bid, such translation shall govern.

### 14. TECHNICAL PROPOSAL

- **14.1** Only, in case of bids with pre-qualification conditions defined in the Bid Data Sheet, the Technical Proposal shall comprise of formats and requirements given in the Bid Data Sheet.
- 14.2 All the documents/ information enclosed with the Technical Proposal should be self-attested and certified by the bidder. The Bidder shall be liable for forfeiture of his earnest money deposit, if any document / information are found false/ fake/ untrue before acceptance of bid. If it is found after acceptance of the bid, the bid sanctioning authority may at his discretion forfeit his performance security/ guarantee, security deposit, enlistment deposit and take any other suitable action.

#### 15. FINANCIAL BID

i. The bidder shall have to quote rates in format referred in Bid Data Sheet, in overall percentage, and not item wise. If the bid is in absolute amount, overall percentage would be arrived at in relation to the probable amount

- of contract given in NIT. The overall percentage rate would apply for all items of work.
- ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found, lower of the two shall be taken as valid and correct.
- iii. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies; and the Employer shall not be liable for the same.
- iv. The material along with the units and rates, which shall be issued, if any, by the department to the contractor, is mentioned in the Bid Data Sheet.

### 16. PERIOD OF VALIDITY OF BIDS

The bids shall remain valid for a period specified in the Bid Data Sheet after the date of "close for biding" as prescribed by the Employer. The validity of the bid can be extended by mutual consent in writing.

### 17. EARNEST MONEY DEPOSIT (EMD)

- **17.1** The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD), in the amount specified in the Bid Data Sheet.
- 17.2 The EMD shall be in the form of Fixed Deposit Receipt of a scheduled commercial bank, issued in favour of the name given in the Bid Data Sheet. The Fixed Deposit Receipt shall be valid for six months or more after the last date of receipt of bids. However, other form(s) of EMD may be allowed by the Employer by mentioning it in the Bid Data Sheet.
- **17.3** Bid not accompanied by EMD shall be liable for rejection as non-responsive.
- **17.4** EMD of bidders whose bids are not accepted will be returned within ten working days of the decision on the bid.
- **17.5** EMD of the successful Bidder will be discharged when the Bidder has signed the Agreement after furnishing the required Performance Security.
- **17.6** Failure to sign the contract by the selected bidder, within the specified period, for whatsoever reason, shall result in forfeiture of the earnest money deposit.

### D. Submission of Bid

18. The bidder is required to submit online bid duly signed digitally, and Envelop 'A' in physical form also at the place prescribed in the Bid Data Sheet.

### E. Opening and Evaluation of Bid

### 19 PROCEDURE

- 19.1 Envelope 'A' shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelop 'A' does not contain all requisite documents, such bid shall be treated as non-responsive, and Envelop B and/or C of such bid shall not be opened.
- 19.2 Wherever Envelop 'B' (Technical Bid) is required to be submitted, the same shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop 'B'. Envelop 'C' (Financial Bid) of bidders who are not qualified in Technical Bid (Envelop 'B') shall not be opened.
- **19.3** Envelope 'C' (Financial Bid) shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop 'C'.
- **19.4** After opening Envelop 'C' all responsive bids shall be compared to determine the lowest evaluated bid.
- 19.5 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all the bids at any time prior to contract award, without incurring any liability. In all such cases reasons shall be recorded.
- **19.6** The Employer reserves the right of accepting the bid for the whole work or for a distinct part of it.

### 20. Confidentiality

- **20.1** Information relating to examination, evaluation, comparison and recommendation of contract award shall not be disclosed to bidders or any other person not officially concerned with such process until final decision on the bid.
- **20.2** Any attempt by a bidder to influence the Employer in the evaluation of the bids or contract award decisions may result in the rejection of his bid.

### F. Award of Contract

### 21. Award of Contract

The Employer shall notify the successful bidder by issuing a 'Letter of Acceptance' (LOA) that his bid has been accepted.

### 22. Performance Security

22.1 Prior to signing of the Contract the bidder to whom LOA has been issued

- shall have to furnish performance security of the amount in the form and for the duration, etc. as specified in the Bid Data Sheet.
- **22.2** Additional performance security, if applicable, is mentioned in the Bid Data Sheet and shall be in the form and for the duration etc. similar to Performance Security.

### 23. Signing of Contract Agreement

- **23.1** The successful bidder shall have to furnish Performance Security and Additional Performance Security, if any, and sign the contract agreement within 15 days of issue of LOA.
- **23.2** The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the Employer to the contractor for commencement of work.
- 23.3 In the event of failure of the successful bidder to submit Performance Security and Additional Performance Security, if any or sign the Contract Agreement, his EMD shall stand forfeited without prejudice to the right of the employer for taking any other action against the bidder.

### 24. CORRUPT PRACTICES

The Employer requires that bidders observe the highest standard of ethics during the procurement and execution of contracts. In pursuance of this policy, the Employer:

- may reject the bid for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- ii. may debar the bidder declaring ineligible, either indefinitely or for a stated period of time, to participate in bids, if it at any time determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a contract.

For the purposes of this provision, the terms set forth above are defined as follows:

- a. "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
- b. "fraudulent practice" means any act or omission, including a
  misrepresentation, that knowingly or recklessly misleads, or attempts to
  mislead, a party to obtain a financial or other benefit or to avoid an
  obligation;

- c. "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- d. "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

### G. GST

The bidder shall have to quote rates inclusive of all duties, royalties, levies and taxes except Goods and Service Tax (GST). The amount of applicable GST will be paid separately to the Contractor with each bill at the time of payment. The employer shall not be liable for any duties, taxes (except GST) royalties and levies:

[End of ITB]

	Bid Dat	a Sheet
GENERAL		
SR. No.	PARTICULARS	DATA
1	Office inviting tender	OFFICE OF THE EXECUTIVE DIRECTOR,
		JABALPUR SMART CITY LIMITED, JABALPUR.
2	NIT No	
3	Date of NIT	11 <sup>th</sup> January 2018
4	Bid document download	The Bid Document can be purchased only
	available from date & time	online from <b>1730 Hrs on 15-01-2018</b> to
		time <b>1730 Hrs on</b> 22/02/2018.
5	Website link	http://www.mpeproc.gov.in
SECTION 1	– NIT	
CLAUSE	PARTICULARS	DATA
REFERENCE		
2	Portal fees	AS NOTIFIED IN E-TENDERING WEBSITE
3	Cost of bid document	₹ 50,000.00 (FIFTY THOUSAND ONLY)
	Cost of bid document Payable at	As notified in e-tendering website
	Cost of bid document In favor of	As notified in e-tendering website
4	Affidavit format	ANNEXURE B
5	Pre-qualifications required	YES
	If Yes, details	AS PER ANNEXURE C
6	Special Eligibility	YES
	If Yes, details	AS PER ANNEXURE D
	Key dates	ANNEXURE A
SECTION 2	- ITB	T
CLAUSE REFERENCE	PARTICULARS	DATA
1	Name of 'work'	Development of Development of Multi-Sports
		Complex at Wright Town, Jabalpur, Madhya
		Pradesh(Phase-1)
2	Specifications	Annexure – E
3	Procedure for participation in e-	Annexure – F
	tendering	
4	Whether Joint Venture is allowed	YES
	If yes, requirement for joint	Annexure - G
	Pre bid meeting to be held	YES
_	If Yes, Date, Time & Place	5 <sup>th</sup> Feb 2018 at 15:00 Hrs (03:00 pm)
5		Venue - JSCL Office, Manas Bhawan, Wrigi Town, Jabalpur

	Bid Data Shee	et
CLAUSE REFERENCE	PARTICULARS	DATA
6	ENVELOPMENT A CONTAINING:  1. REGISTRATION NUMBER OR PROOF OF APPLICATION FOR REGISTRATION AND ORGANIZATIONAL DETAILS AS PER ANNEXURE H	OFFICE OF THE EXECUTIVE DIRECTOR, JABALPUR SMART CITY LIMITED, JABALPUR (M.P.)
	2. COST OF BID DOCUMENT	₹ 50,000.00 (FIFTY THOUSAND ONLY)
	3. EMD	₹17,58,000.00(Seventeen Lakhs Fifty Eight thousand only)
	4. AN AFFIDAVIT DULY  NOTARIZED AS PER ANNEXURE  – B SHOULD REACH IN  PHYSICAL FORM	
14	Envelope-B Technical Proposal	Annexure - I and Annexure - I (Format <i>I-1</i> to I-5)
	Envelope-C Financial Bid	Annexure - J
15	Materials to be issued by the department	Not Applicable
16	Period of Validity of Bid	120 Days
	Earnest Money Deposit Forms of Earnest Money Deposit	₹17,58,000.00 i. FDR
	EMD valid for a period of	Six Months after the last date of receipt of bids
17	FDR must be drawn in favour of	DD/FDR/E-FDR in favor of EXECUTIVE DIRECTOR, JABALPUR SMART CITY LIMITED. JABALPUR
21	Letter of Acceptance (LoA)	Annexure L
	Amount of Performance Security	5% of contract amount
	Additional Performance Security, if any	As per norms
22	Performance security in the format	Annexure M
22	Performance security in favour of	Executive Director, Jabalpur Smart City Limited
	Performance security valid up to	Valid Contract period plus 3 months

# Annexure – A (See clause 1, 7 of Section 1 -NIT )

### **KEY DATES**

S.N			STA	.RT	EXPIRY		
0 0	WORKS STAGE	BIDDERS STAGE	DATE	TIME	DATE	TIME	ENVELOPE
1	TENDER PURCHASE	PURCHASE OF TENDER – ONLINE	15/01/2018	17.30 Hrs	22/02/2018	Till 17.30 Hrs	
2	TENDER FILING	BID SUBMISSION – ONLINE	15/01/2018	17.30 Hrs	26/02/2018	Till 17.30 Hrs	
3	MANDATORY SUBMISSION OPEN (ENVELOP-A)		27/02/2018	15.00 Hrs			ENVELOPE A ONLINE OPENING
4	TECHNICAL PROPOSAL OPEN (ENVELOPE-B)		27/02/2018	15.00 Hrs			ENVELOPE B ONLINE OPENING
5	PHYSICAL SUBMISSION REACHING J.S.C.L.		01/03/2018	17.30 Hrs			
5	FINANCIAL BID OPEN (ENVELOPE-C)		06/03/2018	15.00 Hrs			ENVELOPE C

Original term deposit receipt of earnest money deposit, demand draft for the cost of bid document and affidavit shall be submitted by the bidder so as to reach the office as prescribed in Bid Data Sheet, at least one calendar day before specified start time and date in key dates for opening of technical proposal as per Key dates in Bid Data Sheet.

Section 2 – Annexure-A Page **17** of **121** 

(See clause 3 of Section 1 -NIT)

### || AFFIDAVIT ||

### (To be contained in Envelope A)

(On Non Judicial Stamp of Rs. 100)

	I/we who is/
submis	(status in the firm/ company) and competent for sion of the affidavit on behalf of M/S (contractor) do ally affirm an oath and state that:
submit submit  the	I/we am/are fully satisfied for the correctness of the certificates/records ted in support of the following information in bid documents which are being ted in response to notice inviting e-tender No for (name of work) dated issued by (name of the department).  I/we am/are fully responsible for the correctness of following self-certified
informa	ation/ documents and certificates:
	<ol> <li>That the self-certified information given in the bid document is fully true and authentic.</li> <li>That:</li> </ol>
	<ul><li>a. Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.</li><li>b. Information regarding financial qualification and annual turnover is correct.</li></ul>
	c. Information regarding various technical qualifications is correct.
	3. No close relative of the undersigned and our firm/ company is working in the department.
	OR
	Following close relatives are working in the department:
	Name Post Present Posting
	Signature with Seal of the Deponent (bidder)
	I/ We, above deponent do hereby certify that the
	entioned in above paras 1 to 4 are correct to the best of my knowledge and belief.
	Verified today (dated) at (place).
	Signature with Seal of the Deponent (bidder)
	Note: Affidavit duly notarized in original shall reach at least one calendar fore opening of the bid.

Section 2 – Annexure-B Page **18** of **121** 

### **PRE-QUALIFICATIONS CRITERIA**

### The bidder should have:

### A. Financial

- I. experience of having successfully executed: -
  - three similar works, each costing not less than the amount equal to 20% of the probable amount of contract during the last 3 financial years; or
  - two similar works, each costing not less than the amount equal to 30% of the probable amount of contract during the last 3 financial years; or
  - one similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract in any one financial year during the last 3 financial years;
- ii. Average annual construction turnover on the construction works not less than **50%** of the probable amount of contract, during the last 3 financial years.
- iii. Executed similar items of work in any one financial year during the last 3 financial years, which should not be less than the minimum, physical requirement, if any, fixed for the work.
- iv. Bid Capacity Bidder shall be allotted work up to his available Bid Capacity, which shall be worked out as given in format 1-2 of Annexure I.

### B. Physical

Physical qualifications for the work shall be as below

S.No	Physical qualification	Quantity	Period
	required		
1	Piling Works	At least one building work having	In any one of the last
		Pile Foundation carried out using	3 years
		Hydraulic Piling Rig.	
2	Concrete work	At least one work of 7000 sqm built-	In any one of the last
		up area, and 4500 cum of controlled	3 years
		RMC work	
3	Comprehensive	Including Civil work, Interior	
	construction	finishing, all allied services such as	
	contracts	Fire-fighting sprinkler system, HVAC/	
	55	MEP with excellent workmanship.	

Section 2 – Annexure-D Page **19** of **121** 

### Note:

- (a) The bidder will have to provide certificates for above prequalifying conditions from competent authority.
- (b) The bidder should attach a PowerPoint presentation of not more than 20 slides exhibiting exemplary work.

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### Annexure – D

(See clause 6 of Section 1 -NIT)

### **SPECIAL ELIGIBILITY CRITERIA**

NIL

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### **SPECIFICATIONS**

- 1. UADD, Specification / ISSR 2012, amended up to date of NIT
- 2. CPWD, Specifications, amended up to date of NIT.
- 3. National Building Code of India, amended up to date of NIT.
- 4. As per enclosed ANNEXURE E1

# (ANNEXURE - E1 Detailed Specification enclosed)

The provisions of general / special conditions of contract, those specified elsewhere in the bid document, as well as execution drawings and notes, or other specifications issued in writing by the Employer shall form part of the technical specifications of this work.

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### **Procedure for Participation in e-Tendering**

### 1. Registration of Bidders on e-Tendering System:

All the PWD registered bidders are already registered on the new e-procurement portal <a href="https://www.mpeproc.gov.in">https://www.mpeproc.gov.in</a>. The user id will be the contractor ID provided to them from MP Online. The password for the new portal has been sent to the bidders registered email ID. For more details may contact M/s. Tata Consultancy Services Corporate Block, 5<sup>th</sup> Floor, DB City BHOPAL-462011 email id: eproc\_helpdesk@mpsdc.gov.in. Helpdesk phone numbers are available on website.

### 2. Digital Certificate:

The bids submitted online should be signed electronically with a Class III Digital Certificate to establish the identity of the bidder submitting the bid online. The bidders may obtain Class III Digital Certificate issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities, Government of India. A Class III Digital Certificate is issued upon receipt of mandatory identity proofs along with an application. Only upon the receipt of the required documents, a Digital Certificate can be issued. For details please visit **cca.gov.in**.

### Note:

- i. It may take upto 7 working days for issuance of Class-III Digital Certificate; hence the bidders are advised to obtain the certificate at the earliest. Those bidders who already have valid Class-III Digital Certificate need not obtain another Digital Certificate for the same.
  - The bidders may obtain more information and the Application Form required to be submitted for the issuance of Digital Certificate from <a href="mailto:cca.gov.in">cca.gov.in</a>
- ii. Bids can be submitted till bid submission end date. Bidder will require digital signature while bid submission.

The digital certificate issued to the Authorized User of a Partnership firm / Private Limited Company / Public Limited Company and used for online biding will be considered as equivalent to a no-objection certificate / power of attorney to that user.

In case of Partnership firm, majority of the partners have to authorize a specific individual through Authority Letter signed by majority of the partners of the firm. In case of Private Limited Company, Public Limited Company, the Managing Director has to authorize a specific individual through Authority Letter. Unless the certificate is revoked, it will be assumed to represent adequate authority of the specific individual to bid on behalf of the organization for online bids as per information Technology Act 2000. This Authorized User will be required to obtain a Digital Certificate. The Digital Signature executed through the use of Digital

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Certificate of this Authorized User will be binding on the firm. It shall be the responsibility of Management / Partners of the concerned firm to inform the Certifying Authority, if the Authorized User changes, and apply for a fresh Digital Certificate for the new Authorized User.

### 3. Set Up of Bidder's Computer System:

In order for a bidder to operate on the e-tendering System, the Computer System of the bidder is required to be set up for Operating System, Internet Connectivity, Utilities, Fonts, etc. The details are available at https://www.mpeproc.gov.in

### 4. Key Dates:

The bidders are strictly advised to follow the time schedule (Key Dates) of the bid on their side for tasks and responsibilities to participate in the bid, as all the stages of each bid are locked before the start time and date and after the end time and date for the relevant stage of the bid as set by the Department.

### 5. Preparation and Submission of Bids

The bidders have to prepare their bids online, encrypt their bid Data in the Bid forms and submit Bid of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice inviting e-Tenders after signing of the same by the Digital Signature of their authorized representative.

### 6. Purchase of Bid Document

For purchasing of the bid document bidders have to pay Service Charge online ONLY which is Rs. [as per Bid Date Sheet]. Cost of bid document is separately mentioned in the Detailed NIT. The Bid Document shall be available for purchase to concerned eligible bidders immediately after online release of the bids and upto scheduled time and date as set in the key dates.

The payment for the cost of bid document shall be made online through Debit/ Credit card, Net banking or NeFT Challan through the payment gateway provided on the portal.

### 7. Withdrawal, Substitution and Modification of Bids

Bidder can withdraw and modify the bid till Bid submission end date.

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(See clause 4 of Section 2-ITB)

### **JOINT VENTURE (J.V.)**

- If J.V. is allowed following conditions and requirements must be fulfilled –
- 1. Number of partners in a Joint Venture shall not exceed 3 (three). The partners shall comply with the following requirements:
- a. One of the partners shall be nominated as being Lead Partner, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of
- b. The bid and, in case of successful bid, the Agreement, shall be signed so as to be legally binding on all partners;
- The partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract, including payment, shall be done exclusively with the partner in charge;
- d. All the partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the authorization mentioned under [c] above, as well as in the bid and in the Agreement [in case of successful bid];
- e. Bidder shall submit the joint venture agreement indicating precisely the role and responsibilities of all the members of JV in respect of planning, design, construction equipment, key personnel, work execution, and financing of the project. All members of JV should have active participation in execution during the currency of the contract. This should not be varied/modified subsequently without prior approval of the employer;

  f. a copy of the Joint Venture Agreement entered into by the partners shall be submitted
- with the bid.
- The joint venture agreement shall be registered at the time of agreement, so as to be legally valid and binding on all partners.
- 2. All the partners should meet out the minimum qualifying criteria required for the bid and collectively must meet the criteria specified in full. Failure to comply with this requirement will result in rejection of the joint venture's bid.
- 3. The performance security of joint venture shall be in the name of the partner Lead partner/joint venture.
- 4. Attach the power of attorney of the partners authorizing the Bid signatory(ies) on behalf of the joint venture
- 5. An individual Bidder cannot at the same time be member of a Joint Venture applying for this Bid. Further, a member of a particular Bidder Joint Venture cannot be member of any other Bidder Joint Venture applying for this bid.
- 6. A copy of the Joint Venture agreement entered into by the partners made on Rs 500/- Nonjudicial stamp duly notarized shall be submitted with the bid. However at the time of agreement bidder shall get the joint venture agreement registered, so as to be legally valid and binding on all partners.
- 7. Furnish details of participation proposed in the joint venture as below:

PARTICIPATION DETAILS	FIRM partner)	'A'	(Lead	FIRM 'B'	FIRM 'C'
Financial					
Name of the Banker(s)					
Planning					
Construction Equipment					
Key personnel					
Execution of Work (Give					
details on contribution of					
each)					

- The partners of J.V. should satisfy the qualification criteria as below,
  - The Lead Partner must have the share of 51% in the J.V.
  - The other partner(s) must have a share of minimum 25% in the J.V. b.
  - The lead partner and the other partners must also meet 51% and 26% of the all qualification criteria respectively except for the requirement of work experience described in Annexure 'C'. However both the partners must satisfy the full (100%)qualification criteria jointly. For this purpose the qualification of individual partners shall be added (for annual average turnover, Net worth).

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- 8. For the meeting the minimum qualification criteria of experience of similar nature work,
  - i. Out of 3 similar works of value more than 20% of PAC, at least 2 works must be done by lead partner and one work to be done by other partner,

Or

ii. Out of 2 similar works of value more than 30% of PAC, at least 1(one) work must be done by lead partner and 1 (one) work to be done by other partner,

Or

iii. In case of one similar work of value more than 50% of PAC the lead partner must satisfy the criteria. However the other partner must satisfy the criteria of least one work of 20% of PAC.

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(See clause 12 of Section 2 —ITB & clause 4 of GCC)

### **ORGANIZATIONAL DETAILS**

(To be Contained in Envelope - A)

	(10 be contained in	Envelope 71
S. No.	Particulars	Details
	Valid Registration of bidder in appropriate	Registration No
1.	class through Centralized Registration of	Date (Scanned copy of
	Government of MP	Registration to be uploaded)
2.	Name of Organization/ Individual/	
۷.	Proprietary Firm/ Partnership Firm	
	Entity of Organization	
3.	Individual/ Proprietary Firm/ Partnership	
э.	Firm (Registered under Partnership Act)/	
	Limited Company (Registered under the	
	Companies Act 1956)/ Corporation/ Joint	
	Venture	
4.	Address of Communication	
5.	Telephone Number with STD Code	
6.	Fax Number with STD Code	
7.	Mobile Number	
8.	E-mail Address for all communications	
	Details of Authorized Representative	
9.	Name	
10.	Designation	
11.	Postal Address	
12.	Telephone Number with STD Code	
13.	Fax Number with STD Code	
14.	Mobile Number	
15.	E-mail Address	

Note: In case of partnership firm and limited company certified copy of partnership deed/ Articles of Association and Memorandum of Association along with registration certificate of the company shall have to be enclosed.

Signature of Bidder with Sea	3
Date:	

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### **Envelope – B, Technical Proposal**

### **Technical Proposal shall comprise the following documents:**

S.No.	Particulars	Details to be submitted
1	Experience – Financial & Physical	Annexure - I (Format: I-1)
2	Annual Turnover	Annexure - I (Format: I-2)
3	List of technical personnel for the key positions	Annexure - I (Format: I-3)
4	List of Key equipments/ machines for quality control labs	Annexure - I (Format: I-4)
5	List of Key equipments/ machines for construction work	Annexure - I (Format: I-5)

### Note:

- 1. Technical Proposal should be uploaded duly page numbered and indexed.
- 2. Technical Proposal uploaded otherwise will not be considered.

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### A. Financial Requirement:

The bidder should have completed either of the below:

- i) three similar works, each costing not less than the amount equal to 20% of the probable amount of contract during the last 3 financial years; or
- ii) two similar works, each costing not less than the amount equal to 30% of the probable amount of contract during the last 3 financial years; or
- iii) one similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract in during the last 3 financial years;

To be filled in by the contractor:

- Details of successfully completed similar works shall be furnished in the following format
- ii. Certificate duly signed by the employer shall also be enclosed for each completed similar work.

Agreement	Name of	Date of	Date of	Amount of	Employer's
Number &	Work	Work	Completion	Contract	Name and
Year		Order			Address

Existing commitments— (Value of 'C' for Bid Capacity formula)

Agreement	Name	Date of	Date of	Amount	Amount of	Employer's
Number &	of	Work	Completion	of	balance	Name and
Year	Work	Order		Contract	work	Address

B. Physical Requirement:

Execution of similar items bf work in any one financial year during the last 3 financial years should not be less than the minimum physical requirement fixed for the work.

S.No.	Particulars	Actual Quantity Executed				
		(To be filled in b	y the contractor)			
		Year - 1	Year - 2	Year - 3		
1	Piling Work					
2	Concrete works					
		,				
S.No.	Particulars	Details				
		Project Name	Quantity	Year of		
			Executed	Completion		
1	Construction of Pile					
	Foundation Works using					
	Hydraulic Piling Rig					
2	Construction of Indoor					
	Stadium or large span building					
	works					
3	Comprehensive construction					
	contracts including Civil work,					
	Interior finishing, all allied					
	services such as Fire-fighting					
	sprinkler system, HVAC and					
	MEP and Landscaping					

### Note:

- 1. Certificate duly signed by the employer shall be enclosed for the actual quantity executed in any one year during the last 3 financial years,
- 2. Similar works: The similarity shall be based on the physical size, complexity, methods technology or other characteristics of main items of work viz, earth work, cement concrete, Reinforced cement concrete, brick masonry, stone masonry etc.

### **ANNUAL TURN OVER**

### **Requirement:**

Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 5 financial years;

### To be filled in by the contractor:

Financial Year	Payments received for contracts in progress or completed
1	
2	
3	
4	
5	

#### Note:

- i. Annual turnover of construction should be certified by the Chartered Accountant.
- ii. Audited balance sheet including all related notes, and income statements for the above financial years to be enclosed.

### **Bid Capacity**

Applicants who meet the minimum qualifying criteria in the evaluation as stated above are to be evaluated further for bid capacity as under:

Bid Capacity=(1.5AX B) - C

### Where

- A. = Maximum value of civil engineering works executed in any one year during the last five year (10% weightage per year shall be given to bring the value of work executed at present price level)
- B = Proposed contract period in years.
- C = Amount of work in hand at present.

### **List of Technical Personnel for the Key Positions**

	Minimum requirement						Availa	ble v	vith th	e bido	der
S. No.	Key Position	Minimum requirement	Qualification	Similar work experience (vears)	Total Work Experience ( v ears)	S. No.	Name of Personnel	Key Position	Qualification	Similar work experience	Total Work Experience
1	Project In Charge	01	Graduate in civil Engineering	10	15						
2	Project Engineer	02	Graduate in civil Engineering	8	10						
3	Site Engineer	04	Diploma in civil Engineering	3	5						
4	Electrical Engineer	01	Graduate in Electrical Engineering	5	7						
5	Supervisor	08	12 <sup>th</sup> Passed	5	10						
6	Lab Technician	02	Diploma in Civil Engineering	5	7						
7	Quality Control	01	Graduate in civil Engineering	8	10						

### **List of Key Equipments/ Machines for Quality Control Labs**

(Refer Annexure-II, Section 53 of CPWD Works Manual'12)

	Minimum requirement	Available with the bidde		
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity
1.	Balances: i) 7-10Kg Cap. (Semi-Self Indicating type – Accuracy 10 gm.) ii) 500 gm Cap. (Semi-Self Indicating	01 Nos. 01 Nos.		
	type – Accuracy 10 gm.) iii) Pan Balance-5Kg (Accuracy 10 gm.)	01Nos.		
2.	Ovens : Electrically Operated, Thermostatically Controlled upto 100°C– Sensitivity 1°C	01 Nos.		
3.	Sieves - As per IS:460 *IS Sieves : 450 mm internal dia of size 100 mm, 80 mm, 63mm, 50mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75 mm, complete with lid and plan. * IS Sieves: 200 mm internal Dia (brass frame) consisting of 2.36 mm, 1.18mm, 500 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.	01 Set		
4.	Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with riming switch assembly.	01 Nos.		
5.	Equipment for slump test - Slump Cone, Steel plate, tamping rod, steel scale, scoop.	02 Set		
6.	Dial gauges 25mm travel - 0.01 mm/division least count	02 Nos.		
7.	Compression testing machine (100T), electrically operated	01 Nos.		
8.	Graduated measuring cylinders 200 ml capacity	03 Nos.		

9.	Enamel trays (for efflorescence test for bricks) - 300mmx250mmx40mm	02 Nos.	
10.	Circular plates of 250 mm dia	04 Nos.	
11.	15 cm moulds for concrete cubes	38 Nos.	
12.	Micrometer Screw 25mm gauge	02 Nos.	
13.	Rebound hammer for testing concrete, dynamic penetrometer	01 Nos.	
14.	Moisture meter for timber	01 Nos.	

### FIELD TESTING INSTRUMENTS

(Refer Annexure-II, Section 53 of CPWD Works Manual'12)

	Minimum Require	ment	Available with the	Bidder
S. No.	Name of Instrument	Quantity	Name of Instrument	Quantity
01.	Steel Tapes – 3m, 10m,	03 Nos.		
	15m, 30m, 50m, 100m	Each		
02.	Vernier Calipers	02 Nos.		
03.	Good Quality Plumb Bob	02 Nos.		
04.	Spirit Level (minimum 30cm	03 Nos.		
	long with 3 bubbles for			
	horizontal and vertical			
05.	Wire Gauge (circular type)	02 Nos.		
	Disc			
06.	Foot Rule	02 Nos.		
07.	Long Nylon Thread	As required		
08.	Rebound Hammer for	02 Nos.		
	testing concrete			
09.	Dynamic Penetrometer	02 Nos.		
10.	Magnifying Glass	02 Nos.		
11.	Screw Driver – 30 cms long	03 Nos.		
12.	Ball Pin Hammer – 100 gms	02 Nos.		
13.	Plastic Bags for taking	As required		
	samples			
14.	Moisture Meter for timber	02 Nos.		
15.	Earth Resistance Test (for	As required		
	Electrical Division)			
16.	Meggar (for Electrical	As required		
	Division)			

### List of Key Equipments/ Machines for Construction Work

	Minimum requirement	Available with th	e bidder	
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity
1.	Hydraulic Piling Rig(Owned/Rented)	01 Nos.		
2.	Concrete batching Plant with min capacity 15 cum/hr	01 Nos.		
3.	Concrete Mechanical Mixer With Hooper	03 Nos.		
4.	Steel centring plates/centring pipes	3000 sq.m.		
5.	Needle Vibrators	12 Nos.		
6.	Material Hoist	02 Nos.		

### **FINANCIAL BID**

### (To Be Contained in Envelope-C)

NAME OF WORK: Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya Pradesh (Phase-1) .

I/We hereby bid for the ex	ecution of the al	oove work within	the time specified at	the
rate (in figures)	(in words)		percent bel	ow/
above or at par based on	the Bill of Quantit	ies and item wise	e rates given therein i	n all
respects and in accorda	nce with the	specifications,	designs, drawings	and
instructions in writing in	all respects in a	ccordance with	such conditions so fa	r as
applicable. I/We have vis	ited the site of	work and am/ a	re fully aware of all	the
difficulties and conditions	likely to affect	carrying out th	e work. I/We have	fully
acquainted myself/ ourselv	es about the con-	ditions in regard	to accessibility of site	and
quarries/ kilns, nature and	the extent of gro	und, working con	ditions including stac	king
of materials, installation of	f tools and plant	conditions effect	ting accommodation	and
movement of labour etc. re	quired for the sat	isfactory executio	n of contract.	

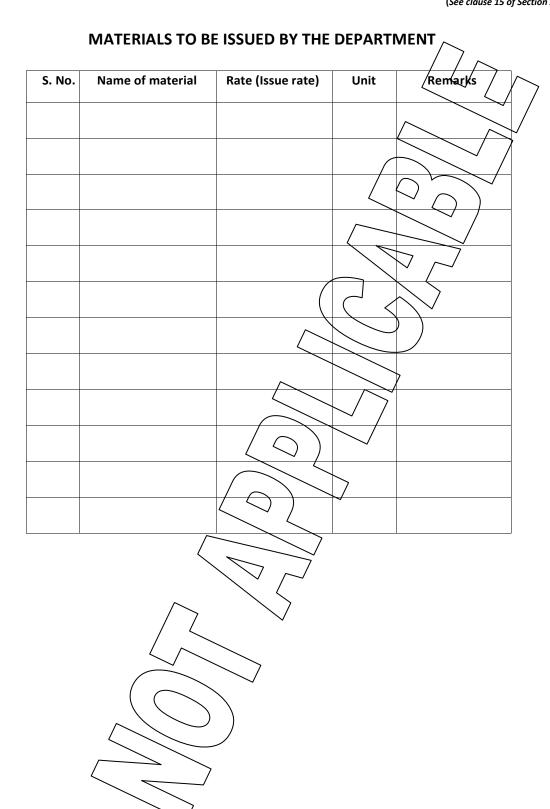
Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable, or in default thereof to forfeit and pay to the Governor of Madhya Pradesh or his successors in office the sums of money mentioned in the said conditions.

#### Note:

- i. Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates given therein shall be quoted.
- ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited.
- iii. In case the percentage "above" or "below" is not given by a bidder, his bid shall be treated as non-responsive.
- iv. The bidder shall have to quote rates inclusive of all duties, royalties, levies and taxes except Goods and Service Tax (GST). The amount of applicable GST will be paid separately to the Contractor with each bill at the time of payment. The employer shall not be liable for any duties, taxes (except GST) royalties and levies.

	Signature of Bidder Name of Bidder
The above bid is hereby accepted Madhya Pradesh dated the day of	by me on behalf of the Governor of20
	Signature of Officer by whom accepted

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# **LETTER OF ACCEPTANCE (LOA)**

o.: Dated:	
Го,	
M/s (Name and address of the contractor)	
Subject: <b>Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya</b> P <b>radesh (Phase-1).</b>	
Dear Sir(s),	
Your bid for the work mentioned above has been accepted on behalf of the Governor of Madhya Pradesh at your bided percentage below/ above or at parthe Bill of Quantities and item wise rates given therein.	
You are requested to submit within 15 (Fifteen) days from the date of issue of this letter:	
a. The performance security/ performance guarantee of Rs (in	
figures) (Rupees in	
words only). The performance security shall be in the shape of term	
deposit receipt/ bank guarantee of any nationalized / schedule commercial	
bank valid up to three months after the expiry of defects liability period.	
b. Sign the contract agreement.	
Please note that the time allowed for carrying out the work as entered in the	
bid is months including rainy season, shall be reckoned from the date of	
signing the contract agreement.	
Signing the contract agreement shall be reckoned as intimation to	
commencement of work and no separate letter for commencement of work is required.	
Therefore, after signing of the agreement, you are directed to contact the Engineer-in-	
charge for taking the possession of site and necessary instructions to start the work.	
Yours Faithfully	
Sign & Designation	

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# **PERFORMANCE SECURITY**

To,
[name of Employer]
[name of Employer]
WHEREAS [name and address of Contractor] (Hereinafter called "the Contractor") has undertaken, in pursuance of Letter of Acceptance No dated to execute [name of Contract and brief description of Works]
(hereinafter called "the Contract").  AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract;  AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:
NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of [amount of guarantee]* (in words), such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.  We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.  We further agree that no change or addition to or other modification of the terms of the Contract of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.  This guarantee shall be valid until 3 (three) months from the date of expiry of the Defect Liability Period.
Signature, Name and Seal of the guarantor
Name of Bank
Address
Phone No., Fax No., E-mail Address, of Signing Authority
Date

\* An amount shall be inserted by the Guarantor, representing the percentage the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

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# **SECTION 3**

# Conditions of Contract Part – I General Conditions of Contract [GCC]

# **Table of Clauses of GCC**

Clause No	Particulars	Clause No	Particulars	
	A. General	21	Payments for Variations and / or Extra Quantities	
1	Definitions	22	No compensation for alterations in or	
			restriction of work to be carried out.	
2	Interpretations and Documents	23	No Interest Payable	
3	Language and Law	24	Recovery from Contractors	
4	Communications	25	Tax	
5	Subcontracting	26	Check Measurements	
6	Personnel	27	Termination by Engineer in Charge	
7	Force Majeure	28	Payment upon Termination	
8	Contractor's Risks	29	Performance Security	
9	Liability For Accidents To Person	30	Security Deposit	
10	Contractor to Construct the	31	Price Adjustment	
11	Discoveries	32	Mobilization and Construction Machinery	
			Advance	
12	Dispute Resolution System	33	Secured Advance	
	B. Time Control	34	Payments Certificates	
13	Programme		E. Finishing the Contract	
14	Extension of Time	35	Completion Certificate	
15	Compensation for Delay	36	Final Account	
16	Contractor's quoted percentage		F. Other Conditions of Contract	
	C. Quality Control	37	Currencies	
17	Tests	38	Labour	
18	Correction of Defects noticed	39	Compliance with Labour Regulations	
	during the Defect Liability Period			
	D. Cost Control	40	Audit and Technical Examination	
19	Variations - Change in original	41	Death or Permanent Invalidity of Contractor	
	Specifications, Designs, Drawings			
_	etc.			
20	Extra Items	42	Jurisdiction	

#### A. General

#### 1. DEFINITIONS

- 1.1. **Bill of Quantities**: means the priced and completed Bill of Quantities forming part of the Bid.
- 1.2. **Engineer in Chief / Chief Engineer**: means Engineer in Chief / Chief Engineer of the Directorate of Urban Administration & Development.
- 1.3. **Completion**: means completion of the work as certified by the Engineer-in-Charge, in accordance with provisions of agreement.
- 1.4. **Contract:** means the Contract between the Employer and the Contractor to execute, complete and/or maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.
- 1.5. **Contract Data**: means the documents and other information which comprise of the Contract.
- 1.6. **Contractor**: means a person or legal entity whose bid to carry out the work has been accepted by the Employer.
- 1.7. **Contractor's bid**: means the completed bid document submitted by the Contractor to the Employer.
- 1.8. **Contract amount**: means the amount of contract worked out on the basis of accepted bid.
- 1.9. **Completion of work**: means completion of the entire contracted work. Exhaustion of quantity of any particular item mentioned in the bid document shall not imply completion of work or any component thereof.
- 1.10. **Day**: means the calendar day.
- 1.11. **Defect**: means any part of the work not completed in accordance with the specifications included in the contract.
- 1.12. **Department**: means Department of the State Government viz. Urban Development & Environment Department.
- 1.13. **Drawings**: means drawings including calculations and other information provided or approved by the Engineer-in-Charge.
- 1.14. **Employer**: means the party as defined in the **Contract Data**, who employs the Contractor to carry out the work. The Employer may delegate any or all functions to a person or body nominated by him for specified functions. The word Employer / Government / Department wherever used denote the Employer.
- 1.15. **Engineer**: means the Engineer designated by the Commissioner / Chief Municipal Officer, Municipal Corporation / Municipal Council / Nagar Parishad
- 1.16. **Engineer in charge**: means the Executive Engineer of the department or the person designated by the **(Name of City)** Municipal Corporation / Municipal Council / Nagar Parishad.
- 1.17. **Equipment**: means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work.
- 1.18. **Government**: means Government of Madhya Pradesh.
- 1.19. In Writing: means communicated in written form and delivered against receipt.
- 1.20. **Material**: means all supplies, including consumables, used by the Contractor for incorporation in the work.

- 1.21 Deleted
- 1.22 **Project means:** Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya Pradesh (Phase-1).
- 1.23. **Deleted**
- 1.24. **Stipulated period of completion**: means the period in which the Contractor is required to complete the work. The stipulated period is specified in the **Contract Data.**
- 1.25. **Specification**: means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.
- 1.26. **Start Date:** means the date of signing of agreement for the work.
- 1.27. **Sub-Contractor**: means a person or corporate body who has a Contract with the Contractor, duly authorized and approved by the employer to carry out a part of the construction work under the Contract.
- 1.28. **Temporary Work**: means work designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the work.
- 1.29. **Tender/Bid, Tenderer/Bidder**: are the synonyms and carry the same meaning where ever used.
- 1.30. **Variation**: means any change in the work which is instructed or approved as variation under this contract.
- 1.31. Work: The expression "work" or "works" where used in these conditions shall unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the work by virtue of contract, contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional.

#### 2. INTERPRETATIONS AND DOCUMENTS

#### 2.1 Interpretations

In the contract, except where the context requires otherwise:

- a. words indicating one gender include all genders;
- b. words indicating the singular also include the plural and vice versa.
- c. provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
- d. "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record;

## 2.2 Documents Forming Part of Contract:

- 1. NIT with all amendments.
- 2. Instructions to Bidders (ITB, Bid Data Sheet with all Annexures)
- 3. Conditions of Contract:
  - i. Part-I General Conditions of Contract and the Contract Data; with all Annexures
  - ii. Part-II Special Conditions of Contract.
- 4. Specifications
- 5. Drawings
- 6. Bill of Quantities
- 7. Technical and Financial Bid
- 8. Agreement, and
- 9. Any other document(s), as specified.

#### 3. Language and Law

The language of the Contract and the law governing the Contract are stated in the Contract Data.

#### 4. Communications

All certificates, notice or instruction to be given to the Contractor by Employer/ Engineer shall be sent to the address or contact details given by the Contractor in [Annexure-H of ITB]. The address and contact details for communication with the Employer/Engineer shall be as per the details given in the Contract Data. Communication between parties that are referred to in the conditions shall be in writing. The notice sent by facsimile (fax) or other electronic means (email) shall also be effective on confirmation of the transmission. The notice sent by registered post or speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service. In case of any change in address for communication, the same shall be immediately notified to Engineer-in-Charge.

#### 5. Subcontracting

Subcontracting shall be permitted for contracts of value more than amount specified in the Contract Data with following conditions.

- a. The Contractor may subcontract up to 25 percent of the contract price with the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractor's obligations.
- b. Following shall not form part of subcontracting:
  - i. Hiring of labour through a labour contractor.
  - ii. The purchase of Materials to be incorporated in the works.
  - iii. Hiring of plant & machinery
- c. The sub-contractor will have to be registered in the **appropriate category** in the centralized registration system for contractors of the GoMP.

#### 6. Personnel

- 6.1 The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure I-3 of Bid Data Sheet, if applicable. If the Contractor fails to deploy required number of technical staff, recovery as specified in the Contract Data will be made from the Contractor.
- 6.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within three days and has no further connection with the Works in the Contract.

#### 7. Force Majeure

- **7.1** The term "Force Majeure" means an exceptional event or circumstance:
  - (a) Which is beyond a Party's control,

- (b) Which such Party could not reasonably have provided against before entering into the Contract,
- (c) Which, having arisen, such Party could not reasonably have avoided or overcome, and
- (d) Which is not substantially attributable to the other Party.

  Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:
  - (i) War, hostilities (whether war be declared or not), invasion, act of foreign enemies,
  - (ii) Rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
  - (iii) Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
  - (iv) Munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
  - (v) Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
- **7.2.** In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.
- 7.3 For the period of extension granted to the Contractor due to Force Majeure the price adjustment clause shall apply but the penalty clause shall not apply. It is clarified that this sub clause shall not give eligibility for price adjustment to contracts which are otherwise not subject to the benefit of price adjustment clause.
- 7.4 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed twelve months, the parties to the contract shall be at liberty to foreclose the contract after holding mutual discussions.

#### 8. Contractor's Risks

- **8.1** All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.
- **8.2** All risks and consequences arising from the inaccuracies or falseness of the documents, drawing, designs, other documents and/or information submitted by

the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that the designs/ drawings or other documents have been approved by the department.

#### 9. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Government against all action, suits, claims, demands, costs etc. arising in connection with injuries suffered by any persons employed by the contractor or his subcontractor for the works whether under the General law or under Workman's Compensation Act, or any other statute in force at the time of dealing with the question of the liability of employees for the injuries suffered by employees and to have taken steps properly to ensure against any claim there under.

#### 10. Contractor to Construct the Works

- **10.1** The Contractor shall construct, install and maintain the Works in accordance with the Specifications and Drawings as specified in the **Contract Data**.
- 10.2 In the case of any class of work for which there is no such specification as is mentioned in Contract Data, such work shall be carried out in accordance with the instructions and requirement of the Engineer-in-charge.
- 10.3 The contractor shall supply and take upon himself the entire responsibility of the sufficiency of the scaffolding, timbering, machinery, tools and implements, and generally of all means used for the fulfillment of this contract whether such means may or may not be approved or recommended by the Engineer.

#### 11. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

#### 12. Dispute Resolution System

- 12.1 No dispute can be raised except before the Competent Authority as defined in Contract Data in writing giving full description and grounds of dispute. It is clarified that merely recording protest while accepting measurement and/or payment shall not be taken as raising a dispute.
- 12.2 No dispute can be raised after 45 days of its first occurrence. Any dispute raised after expiry of 45 days of its first occurrence shall not be entertained and the Employer shall not be liable for claims arising out of such dispute.
- **12.3** The **Competent Authority** shall decide the matter within 45 days.
- **12.4** Appeal against the order of the Competent Authority can be preferred within 30 days to the **Appellate Authority** as defined in **the Contract Data**. The Appellate Authority shall decide the dispute within 45 days.
- **12.5** Appeal against the order of the Appellate Authority can be preferred before the Madhya Pradesh Arbitration Tribunal constituted under Madhya Pradesh *Madhyastham Adhikaran Adhiniyam*, 1983.

12.6 The Contractor shall have to continue execution of the Works with due diligence notwithstanding pendency of a dispute before any authority or forum.

#### **B. Time Control**

#### 13. Programme

- **13.1** Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements, order and timing for all the activities for the construction of works.
- 13.2 The program shall be supported with all the details regarding key personnel, equipment and machinery proposed to be deployed on the works for its execution. The contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/equipment being placed in field laboratory and the location of field laboratory along with the Programme.
- **13.3** An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.
- Programme at intervals no longer than the period stated in the **Contract Data**. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the **Contract Data** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.
- **13.5** The Engineer's approval of the Programme shall not alter the Contractor's obligations.

#### 14. Extension of Time

- 14.1. If the Contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply, in writing, to the Engineer-in-charge, on account of which he desires such extension. Engineer-in-Charge shall forward the aforesaid application to the Competent Authority as prescribed.
- **14.2** The competent authority shall grant such extension at each such occasion within a period of 30 days of receipt of application from contractor and shall not wait for finality of work. Such extensions shall be granted in accordance with provisions under **clause-15** of this agreement.
- **14.3** In case the work is already in progress, the Contractor shall proceed with

the execution of the works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid with all due diligence.

#### 15. Compensation for delay

- **15.1** The time allowed for carrying out the work, as entered in the agreement, shall be strictly observed by the Contractor.
- **15.2** The time allowed for execution of the contract shall commence from the date of signing of the agreement. It is clarified that the need for issue of work order is dispensed with.
- **15.3** In the event milestones are laid down in the Contract Data for execution of the works, the contractor shall have to ensure strict adherence to the same.
- **15.4** Failure of the Contractor to adhere to the timelines and/or milestones shall attract such liquidated damages as is laid down in the Contract Data.
- 15.5 In the event of delay in execution of the Works as per the timelines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages leviable until the Contractor makes such delays good. However, the Engineer-in-charge shall accept bankable security in lieu of retaining such amount.
- **15.6** If the Contractor is given extension of time after liquidated damages have been paid, the Engineer-in-Charge shall correct any over payment of liquidated damages by the Contractor in the next payment certificate.
- **15.7** In the event the Contractor fails to make good the delay until completion of the stipulated contract period (including extension of time) the sum so retained shall be adjusted against the liquidated damages levied.

#### 16. Contractor's quoted percentage

The Contractor's quoted percentage rate referred to in the "Bid for works" will be deducted/ added from/to the net amount of the bill after deducting the cost of material supplied by the department.

#### **C. Quality Control**

#### 17. Tests

- **17.1** The Contractor shall be responsible for:
  - a. Carrying out the tests prescribed in specifications, and
  - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- **17.2** The contractor shall have to establish field laboratory within the time specified and having such equipments as are specified in the **Contract Data**.
- **17.3** Failure of the Contractor to establish laboratory shall attract such penalty as is specified in the **Contract Data**.

# 18. Correction of Defects noticed during the Defect Liability Period

- **18.1** The Defect Liability Period of work in the contract shall be as per the **Contract Data**.
- **18.2** The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.
- 18.3 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of having the Defect corrected, and the cost of correction of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.

#### **D. Cost Control**

## 19. Variations - Change in original Specifications, Designs, and Drawings etc.

- 19.1 The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions in the original specifications, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work in accordance with any instructions which may be given to him in writing signed by the Engineer-in-charge, and such alterations, omission, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified, as part of the work, shall be carried out by the contractor on the same conditions in all respects on which he agrees to do the main work.
- 19.2 The time for the completion of the work shall be adjusted in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

#### 20. Extra items

**20.1** All such items which are not included in the priced BOQ shall be treated as extra items.

#### 21. Payments for Variations and / or Extra Quantities

- 21.1 The rates for such additional (Extra quantity), altered or substituted work / extra items under this clause shall be worked out in accordance with the following provisions in their respective order:
  - a. The contractor is bound to carry out the additional (Extra quantity), work at **the same rates** as are specified in the contract for the work.
  - b. If the item is not in the priced BOQ and is included in the SOR of the department, the rate shall be arrived at by applying the quoted tender percentage on the SOR rate.

- c. If the rates for the altered or substituted work are not provided in applicable SOR – such rates will be derived from the rates for a similar class (type) of work as is provided in the contract (priced BOQ) for the work.
- d. If the rates for the altered, substituted work cannot be determined in the manner specified in the sub clause (c) above then the rates for such composite work item shall be worked out on the basis of the concerned Schedule of Rates minus/plus the percentage quoted by the contractor.
- e. If the rates for a particular part or parts of the item is not in the Schedule of Rates and the rates for the altered, or substituted work item cannot be determined in the manner specified in sub clause (b) to (d) above, the rate for such part or parts will be determined by the Competent Authority as defined in the Contract Data on the basis of the rate analysis derived out of prevailing market rates when the work was done.
- f. But under no circumstances, the contractor shall suspend the work on the plea of non-acceptability of rates on items falling under sub clause (a) to (d). In case the contractor does not accept the rate approved by the Engineer in Charge for a particular item, the contractor shall continue to carry out the item at the rates determined by the Competent Authority. The decision on the final rates payable shall be arrived at through the dispute settlement procedure.

#### 22. No compensation for alterations in or restriction of work to be carried out.

- 22.1 If at any time after the commencement of the work, the Engineer-in-charge, for any reason whatsoever, not require the whole or any part of the work as specified in the bid to be carried out; the Engineer-in-charge shall give notice in writing of the fact to the Contractor and withdraw that whole or any part of the work.
- 22.2 The Contractor shall have no claim to any payments or compensation whatsoever, on account of any profit or advantage which he might have derived from the execution of work in full or on account of any loss incurred for idle men and machinery due to any alteration or restriction of work for whatsoever reason.
- **22.3** The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work, without prejudice to his rights.

#### 23. No Interest Payable

No interest shall be payable to the Contractor on any payment due or awarded by any authority.

#### 24. Recovery from Contractors

Whenever any claim against the Contractor for the payment arises under the contract, the Department may be entitled to recover such sum by:

- (a) Appropriating, in part or whole of the Performance Security and Additional Performance Security, if any; and/or Security Deposit and / or any sums payable under the contract to the contractor.
- **(b)** If the amount recovered in accordance with (a) above is not sufficient, the balance sum may be recovered from any payment due to the contractor under any other contract of the department, including the securities which become due for release.
- **(c)** The department shall, further have an additional right to effect recoveries as arrears of land revenue under the *M.P. Land Revenue Code*.

#### 25. Tax

- 25.1 The rates (in case of percentage rate bids)/ lump-sum offer (in case of lump-sum bids) quoted by the Contractor shall be deemed to be inclusive of all duties, royalties, levies and taxes except Goods and Service Tax(GST). The amount of applicable GST will be paid separately to the contractor with each bill at the time of payment.
- 25.2 The liability, if any, on account of quarry fees, duties, taxes (except GST), royalties and levies in respect of materials consumed or services rendered on public work, shall be borne by the Contractor.
- **25.3** Any changes in the taxes due to change in legislation or for any other reason shall not be payable to the contractor.

#### 26. Check Measurements

- **26.1** The department reserves to itself the right to prescribe a scale of check measurement of work in general or specific scale for specific works or by other special orders.
- **26.2** Checking of measurement by superior officer shall supersede measurements by subordinate officer(s), and the former will become the basis of the payment.
- 26.3 Any over/ excess payments detected, as a result of such check measurement or otherwise at any stage up to the date of completion of the defect liability period specified in this contract, shall be recoverable from the Contractor, as per clause 24 above.

#### 27. Termination by Engineer in Charge

- **27.1** If the Contractor fails to carry out any obligation under the Contract, the Engineer-in-Charge may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.
- **27.2** The Engineer in Charge shall be entitled to terminate the Contract if the Contractor
  - a) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract;
  - **b)** the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
  - c) without reasonable excuse fails to comply with the notice to correct

- a particular defect within a reasonable period of time;
- **d)** the Contractor does not maintain a valid instrument of financial security as prescribed;
- e) the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;
- **f)** If the Contractor fails to deploy machinery and equipment or personnel or set up a field laboratory as specified in the **Contract Data**;
- **g)** If the contractor, in the judgment of the Engineer in charge has engaged in corrupt or fraudulent practices in competing for or in executing the contract;
- h) Any other fundamental breaches as specified in the Contract Data.
- 27.3 In any of these events or circumstances, the Engineer in Charge may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (b) or (g) of clause 27.2, the Engineer-in-Charge may terminate the Contract immediately.
- **27.4** Notwithstanding the above, the Engineer-in-Charge may terminate the Contract for convenience by giving notice to the Contractor.

#### 28. Payment upon Termination

- 28.1 If the contract is terminated under clause 27.3, the Engineer shall issue a certificate for value of the work accepted on final measurements, less Advance Payments and Penalty as indicated in the Contract Data. The amount so arrived at shall be determined by the Engineer-in-Charge and shall be final and binding on both the parties.
- 28.2 Payment on termination under clause 27. 4 above -
  - If the Contract is terminated under **clause 27.4** above, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.
- **28.3** If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered as per **clause 24** above.

#### 29. Performance Security

The Contractor shall have to submit performance security and additional performance security, if any, as specified in the **Bid Data Sheet** at the time of signing of the contract. The contractor shall have to ensure that such performance security and additional performance security, if any, remains valid for the period as specified in the Contract Data.

#### 30. Security Deposit-

- **30.1** Security Deposit shall be deducted from each running bill at the rate as specified in the **Contract Data**. The total amount of Security Deposit so deducted shall not exceed the percentage of Contract Price specified in the **Contract Data**.
- 30.2 The security deposit may be replaced by equivalent amount of bank guarantee or fixed deposit receipt assigned to the Employer, with validity up to 3 (three) months beyond the completion of Defect Liability Period/ extended Defect Liability Period.
- **30.3** The Security Deposit shall be refunded on completion of Defect Liability Period.

#### 31. Price Adjustment - Deleted

#### 32. Mobilization Advance

- **32.1** Payment of advances shall be applicable if provided in the **Contract Data.**
- 32.2 If applicable, the Engineer in Charge shall make interest bearing advance payment to the contractor of the amounts stated in the Contract Data, against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled banks, in the name as stated in the Contract Data, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the contractor.
- **32.3** The rate of interest chargeable shall be as per **Contract Data.**
- **32.4** Deleted
- 32.5 The advance payment shall be recovered as stated in the **Contract Data** by deducting proportionate amounts from payment otherwise due to the Contractor. No account shall be taken of the advance payment or its recovery in assessing valuations of work done, variations, price adjustments, compensation events, or liquidated damages.

#### 33. Secured Advance - Deleted

#### 34. Payment Certificates

The payment to the contractor will be as follows for construction work:

- (a) The Contractor shall submit to the Engineer monthly statements of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed.
- **(b)** The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

- (c) The value of work executed shall be determined, based on the measurements approved by the Engineer/ Engineer-in-charge.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- **(e)** The value of work executed shall also include the valuation of Variations and Compensation Events.
- **(f)** All payments shall be adjusted for deductions for advance payment, security deposit, other recoveries in terms of contract and taxes at source as applicable under the law.
- (g) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- (h) Payment of intermediate certificate shall be regarded as payments by way of advance against the final payment and not as payments for work actually done and completed.
- (i) Intermediate payment shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or be considered as an admission of the due performance of the contractor any part thereof, in any respect or the occurring of any claim.
- (j) The payment of final bill shall be governed by the provisions of clause 36 of GCC.

#### E. Finishing the Contract

#### 35. Completion Certificate

- **35.1** A Completion Certificate in the prescribed format in **Contract Data** shall be issued by the Engineer-in-Charge after physical completion of the Work.
- **35.2** After final payment to the Contractor, a Final Completion Certificate in the prescribed format in the **Contract Data** shall be issued by the Engineer-in-Charge.

#### 36. Final Account

36.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 days of issue of certificate of physical completion of works. The Engineer shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 days of receiving the Contractor's account if it is correct and complete. If the account is not correct or complete, the Engineer shall issue within 45 days a schedule that states the scope of the corrections or additions that are necessary. If the Account is still unsatisfactory after it has been resubmitted, the matter shall be referred to the Competent Authority as defined in the Contract Data, who shall decide on the amount payable to the Contractor after hearing the Contractor and the Engineer in Charge.

36.2 In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 32.1 above, the Engineer shall proceed to finalize the account and issue a payment certificate within 28 days.

#### F. Other Conditions of Contract

#### 37. Currencies

All payments will be made in Indian Rupees.

#### 38. Labour

- **38.1** The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- **38.2** The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

#### 39. Compliance with Labour Regulations

**39.1.** During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given in the Contract Data. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made their under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/ byelaws/ Acts/ Rules/ regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

#### 40. Audit and Technical Examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract 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 by him to have been done under the contract and found not to, have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for Government to recover the same from him in the manner prescribed in **clause** 24 above 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.

#### 41. Death or Permanent Invalidity of Contractor

If the Contractor is an individual or a proprietary concern, partnership concern, dies during the currency of the contract or becomes permanently incapacitated, where the surviving partners are only minors, the contract shall be closed without levying any damages/ compensation as provided for in **clause 28.2** of the contract agreement. However, if the competent authority is satisfied about the competence of the survivors, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions under which the contract was awarded.

#### 42. Jurisdiction

This contract has been entered into the State of Madhya Pradesh and its validity, construction, interpretation and legal effect shall be subjected to the courts at the place where this agreement is entered into. No other jurisdiction shall be applicable.

[End of GCC]

# **Contract Data**

Clause Ref.	Particulars	Data	
1.14	Employer	Jabalpur Smart City Limited	
1.14	Employer	Jabaipui Siliari City Lillilleu	
1.15	Engineer	Person as designated by the Engineer-in- Chief JSCL,Jabalpur / Municipal Council / Nagar Parishac	
1.16	Engineer in Charge	Executive Engineer of the department incharge of Project.	
1.22	Stipulated period of completion	15 Months (including Rainy Season)	
3	Language & Law of Contract	English & Indian Contract Act, 1872	
	Address & contact details of the Contractor	As per Annexure H	
4	Address & contact details of the Employer/ Engineer - phone, Fax, e-mail	Jabalpur Smart City Limited, Manas Bhawan, Wright Town, Jabalpur, Madhya Pradesh, 482002, India +91-7611136800  E-Mail: ictpmu@jscljabalpur.org,	
		abdpmu@jscljabalpur.org,	
5	Subcontracting permitted for the Contract Value	not more than 25 % of tender amount	
	Technical Personnel to be provided by the	As per Annexure I (Format I-3)	
6	contractor – requirement Penalty, if required Technical Personnel not	Rs. 20,000/- per month per Technical Personnel	
	employed	For 1-3 in As per Annexure–I (Format: I – 3)	
	- 1	Rs. 15,000/- per month per Technical Personnel	
		For 4-6 in As per Annexure–I (Format: I – 3)	
10	Specifications	As per Annexure E	
10	Drawings	As per Annexure - N	
	Competent Authority for deciding dispute under Dispute Resolution System	CEO, JSCL, Jabalpur	
12	Appellate Authority for deciding dispute under Dispute Resolution System	Executive Director , JSCL,Jabalpur	
	Period of submission of work programme	15 days from the date of signing the agreement	
	Period for submission of updated construction program	Three months (Quarterly)	
13	Amount to be withheld for not submitting construction program in prescribed period	Rs. 1,00,000/- per event	
	Competent Authority for granting Time	CEO , JSCL,Jabalpur	
14	Extension Milestones laid down for the contract	Yes No	
15	If Yes, details of Milestones	As per Annexure - O	
	Liquidated damage	As per Annexure - P	
	List of equipment for lab	As per Annexure - Q	
17	Time to establish lab	Before execution of work at site	
_,	Penalty for not establishing field Laboratory	Rs. 1,00,000/- per month for the delay	
18	Defect Liability Period	24 Months after issue of final completion certificate	
21	Competent Authority for determining the rate	CEO , JSCL,Jabalpur	
27	Any other condition for breach of contract		

# **Contract Data**

Clause	Particulars	Data
reference	. u. ((u. )	
28	Penalty	Penalty Shall include  (a) Security Deposit as per clause 30 of General Conditions of Contract, and  (b Liquidated Damages imposed as per clause 15 or Performance Security (Guarantee) including Additional Performance Security (Guarantee), if any, as per clause 29 of General Conditions of Contract, whichever is higher
29	Performance guarantee (Security) shall be valid up to	Till issue of final Completion Certificate as per Clause 35.1
30	Security Deposit to be deducted from each running bill	At the rate of 5%.
30	Maximum limit of deduction of Security Deposit	Up to 5% of Final Contract Amount.
31	Price Adjustment formula and procedure to calculate	Deleted
31.1 (1)	Price adjustment shall be applicable	Deleted
32	32.1 Mobilization Advance Applicable	Yes
	32.2 If yes, Unconditional Bank Guarantee of 110 % of Mobilization Advance	In the format prescribed in Annexure - S
	32.3 If yes, Rate of interest chargeable on advances	Interest rate (computed quarterly) as per notified bank rate on the date of inviting tender
	32.4 If yes, Type & Amount of Advance payment that can be paid	1. Mobilization advance-Not more than 10% of contract amount
	32.5 If yes, Recovery of advance payment	Recovery of Mobilization advance shall commence when 10% of the contract amount is executed and recovery of total advance shall be done on pro-rata basis and shall be completed by the time work equivalent to 80% of the contract amount is executed.  In addition to the recovery of principal amount, recovery of interest shall be carried out as calculated on the outstanding amount of principal at the close of each month. The interest shall be accrue from the day of payment of advance and the recovery of interest shall commence when 10% of the contract amount is executed and shall be completed by the time work equivalent to 80% of the contract amount is executed.

# **Contract Data**

Clause reference	Particulars	Data
33	33.1 Secured Advance Applicable	No Secured Advance payable.
	33.2 if yes, Unconditional Bank Guarantee	Not Applicable
	33.2 if yes, Amount of Secured Advance	Not Applicable
	33.3 if yes, Conditions for secured advance	Not Applicable
	33.4 if yes, Recovery of Secured advance	Not Applicable
	Completion Certificate – after physical completion of the Work	As per Annexure - U
35	Final Completion Certificate – after final payment on completion of the Work	As per Annexure- V
36	Competent Authority	CEO, JSCL, Jabalpur
37	Salient features of some of the major labour laws that are applicable	As per Annexure-W

# **Drawings**

# **ARCHITECTURAL PACKAGE:**

SR. NO.	DRAWINGS	DRAWING NO
	SITE	
1	SITE PLAN	JS-TD.SP.A0.01
2	3D RENDERINGS	JS-TD.SP.A0.02
	COUTU DAVILLON DI ANG	
3	SP-GROUND & FIRST FLOOR PLAN	JS-TD.SP.A1.01
4	SP-SECOND & THIRD FLOOR PLAN	JS-TD.SP.A1.02
5	SP-FOURTH & FIFTH FLOOR PLAN	JS-TD.SP.A1.03
	BUILDING SECTIONS	
6	SECTIONS-1	JS-TD.SP.A2.01
	BUILDING ELEVATIONS	
7	ELEVATIONS-1	JS-TD.SP.A3.01
	DETAILS	
8	STAIRCASE DETAIL	JS-TD.SP.A4.01
9	DOOR DETAILS	JS-TD.SP.A4.02A
10	DOOR DETAILS	JS-TD.SP.A4.02B
11	WINDOW DETAILS	JS-TD.SP.A4.03
12	ROLLING SHUTTER	JS-TD.SP.A4.04
13	GLAZING DETAILS	JS-TD.SP.A4.05A
14	GLAZNG DETAILS	JS-TD.SP.A4.05B
15	ALUMINIUM LOUVERS & STONE CLADDING DETAIL	JS-TD.SP.A4.06
16	RAILING DETAIL	JS-TD.SP.A4.07A
17	RAILING DETAIL	JS-TD.SP.A4.07B
18	RAILING DETAIL	JS-TD.SP.A4.07C
19	TOILET DETAILS (GROUND & 1ST)	JS-TD.SP.A4.08A

20	TOILET DETAILS (2ND, 3RD & 4TH)	JS-TD.SP.A4.08B
21	KALZIP CLADDING DETAIL	JS-TD.SP.A4.09
22	RAMP & LIFT PIT DETAILS	JS-TD.SP.A4.10

# **STRUCTURAL PACKAGE:**

SR. NO.	DRAWINGS	DRAWING NO	
	SOUTH PAVILION		
1	PILE FOUNDATION LAYOUT	JS-TD.S.SP.1.01	
2	COLUMN SCHEDULE AND DETAILS	JS-TD.S.SP.1.02	
3	GROUND FLOOR LAYOUT BEAM AND SLAB SCHEDULE	JS-TD.S.SP.1.03	
4	FIRST FLOOR LAYOUT BEAM AND SLAB SCHEDULE	JS-TD.S.SP.1.04	
5	SECOND FLOOR LAYOUT BEAM AND SLAB SCHEDULE	JS-TD.S.SP.1.05	
6	THIRD FLOOR LAYOUT BEAM AND SLAB SCHEDULE (BOWL PLAN)	JS-TD.S.SP.1.06	
7	FOURTH FLOOR LAYOUT BEAM AND SLAB SCHEDULE	JS-TD.S.SP.1.07	
8	FIFTH FLOOR LAYOUT BEAM AND SLAB SCHEDULE	JS-TD.S.SP.1.08	
9	ROOF LAYOUT	JS-TD.S.SP.1.09	

## **HVAC PACKAGE:**

SR. NO.	DRAWINGS	DRAWING NO
1	HVAC LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.H.01
2	HVAC LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.H.02
3	HVAC LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.H.03

## PLUMBING & FIRE FIGHTING PACKAGE:

SR. NO.	DRAWINGS	DRAWING NO
1	PLUMBING LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.P.01
2	PLUMBING LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.P.02
3	PLUMBING LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.P.03
4	PLUMBING LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.P.01
5	WATER SUPPLY SCHEMATIC	JS-TD.SP.P.04
6	FIRE FIGHTING LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.F.01
7	FIRE FIGHTING LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.F.01A
8	FIRE FIGHTING LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.F.02
9	FIRE FIGHTING LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.F.02A
10	FIRE FIGHTING LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.F.03
11	FIRE FIGHTING LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.F.03A
12	FIRE FIGHTING SCHEMATIC	JS-TD.SP.F.04

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## **ELECTRICAL PACKAGE:**

		DRAWING
SR. NO.	DRAWINGS	NO
1	LIGHTING LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.E.01
2	LIGHTING LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.E.02
3	LIGHTING LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.E.03
4	MAIN SLD DIAGRAM	JS-D.SP.E.04A
5	MAIN SLD DIAGRAM	JS-D.SP.E.04B
6	POWER LAYOUT FOR GROUND& FIRST FLOOR	JS-TD.SP.E.05
7	POWER LAYOUT FOR SECOND & THIRD FLOOR	JS-TD.SP.E.06
8	POWER LAYOUT FOR FOURTH & FIFTH FLOOR	JS-TD.SP.E.07

Note :- Complete Drawing Set can be downloaded from <a href="www.jabalpurjscl.org">www.jabalpurjscl.org</a>

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(See clause 15 of Section 3 -GCC)

#### **Details of Milestones**

# Development of Multi-Sports Complex at Wright Town, Jabalpur, Madhya Pradesh(Phase-1).

The time allowed for the carrying out the work, as entered in the tender form shall be strictly observed by the contractor and shall be deemed to be essence of the contract and shall be reckoned immediately from the date of signing of agreement to commence the work issued to the contractor.

The work shall throughout the stipulated period of contract be proceeded with all due diligence keeping in view that time is the essence of the contract. The contractor shall be bound in all cases, to complete the following financial target,

- 1/8th of the whole work before 1/4th of the whole time allowed under the contract has elapsed,
  - 3/8th of the work before 1/2 of such time has elapsed
  - 3/4th of the work before 3/4 of such time has elapsed.

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#### **Compensation for Delay**

If the contractor fails to achieve the milestones, and the delay in execution of work is attributable to the contractor, the Employer shall retain an amount from the sums payable and due to the contractor as per following scale -

- i. Slippage up to 25% in financial target during the milestone under consideration -2.5% of the work remained unexecuted in the related time span.
- ii. Slippage exceeding 25% but Up to 50% in financial target during the milestone under consideration -5% of the work remained unexecuted in the related time span.
- iii. Slippage exceeding 50% but Up to 75% in financial target during the milestone under consideration -7.5% of the work remained unexecuted in the related time span.
- iv. Slippage exceeding 75% in financial target during the milestone under consideration -10% of the work remained unexecuted in the related time span.

**Note:** For arriving at the dates of completion of time span related to different milestones, delays which are not attributable to the Contractor shall be considered. The slippage on any milestone is if made good in subsequent milestones or at the time of stipulated period of completion, the amount retained as above shall be refunded. In case the work is not completed within the stipulated period of completion along with all such extensions which are granted to the Contractor for either Employer's default or Force Majeure, the compensation shall be levied on the contractor at the rate of 0.05% per day of delay limited to a maximum of 10% of contract price.

The decision of Employer shall be final and binding upon both the parties.

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# List of Equipment for Quality Control Lab

# As per Annexure-I (Format I-4)

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# **PRICE ADJUSTMENT - DELETED**

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## **Bank Guarantee Form for Mobilization Advance**

То
[name of Employer]
[address of Employer] [name
of Contractor]
In accordance with the provisions of the General Conditions of Contract, clause 31
("Mobilization and Construction Machinery Advance") of the above-mentioned
Contract [name and address of Contractor] (hereinafter called
"the Contractor") shall deposit with [name of Employer] a bank
guarantee to guarantee his proper and faithful performance under the said Clause of
the Contract in an amount of [amount of Guarantee]* [in words].
We, the [bank of financial institution], as instructed by the
Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and
not as surety merely, the payment to [name of Employer] on his
first demand without whatsoever right of obligation on our part and without his first
claim to the Contractor, in the amount not exceeding [amount of
guarantee]* [in words].
We further agree that no change or addition to or other modification of the
terms of the Contractor or Works to be performed there under or of any of the
Contract documents which may be made between [name of
Employer] and the Contractor, shall in any way release us from any liability under this
guarantee, and we hereby waive notice of any such change, addition or modification.
This guarantee shall remain valid and in full effect from the date of the advance
payment under the Contract until [name of Employer] receives ful
repayment of the same amount from the Contractor.
Yours truly,
Signature and Seal :
Name of Bank/Financial Institution: Address :
Date :

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<sup>\*</sup> An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

# **Bank Guarantee Form for Secured Advance - DELETED**

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Sign & Designation

# **Physical Completion Certificate**

Name of Work:
Agreement No Date
Amount of Contract Rs
Name of Agency :
Used MB No
Last measurement recorded
a. Page No. & MB No
b. Date
Certified that the above mentioned work was physically completed on (date) and taken over on (date) and that I have satisfied myself to best of my ability that the work has been done properly.
Date of issue

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# **Final Completion Certificate**

Name of Work:
Agreement no Date
Name of Agency :
Used MB No
Last measurement recorded
a. Page No. & MB No
b. Date
Certified that the above mentioned work was physically completed on (date) and taken over on (date).
Agreemented amount Rs
Final Amount paid to contractor Rs
Incumbency of officers for the work
I have satisfied myself to best of my ability that the work has been done properly.
Date of issue

Sign & Designation

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#### Salient Features of Some Major Labour Laws Applicable

- a) **Workmen Compensation Act 1923:** The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) Payment of Gratuity Act 1972: Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days'(say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) Employees P.F. and Miscellaneous Provision Act 1952: The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
  - i. Pension or family pension on retirement or death as the case may be.
  - ii. Deposit linked insurance on the death in harness of the worker.
  - iii. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act 1951:** The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) Contract Labour (Regulation & Abolition) Act 1970: The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **Minimum Wages Act 1948:** The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways is scheduled employment.
- g) **Payment of Wages Act 1936:** It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) Equal Remuneration Act 1979: The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) Payment of Bonus Act 1965: The Act is applicable to all establishments employing prescribed minimum (say 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly

- set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) Industrial Disputes Act 1947: The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) Industrial Employment (Standing Orders) Act 1946: It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and gets these certified by the designated Authority.
- I) Trade Unions Act 1926: The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) Child Labour (Prohibition & Regulation) Act 1986: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:- The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- O) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996: All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
  - p) Factories Act 1948: The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

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## **SECTION 3**

# **Conditions of Contract**

#### Part – II Special Conditions of Contract [SCC]

#### 1.0 General

- 1.1 Subject to the nomenclature of the item and the specifications indicated hereafter, the work, in general, shall be carried out in accordance with the UADD ISSR 2012, CPWD Specifications and National Building Code of India read with correction slips issued up to the date of receipt of tenders and relevant IS Codes.
- 1.2 Wherever reference to any Indian standard specification occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued thereto or revisions thereof, if any, up to the date of receipt of tenders.
- 1.3 Before commencement of the work, the successful bidder shall co-relate nomenclature of the items with all the relevant architectural and structural drawings to satisfy himself that the information available there from is complete and unambiguous. The figures and written dimensions on the drawings shall be followed. The dimensions shall not be scaled out. The contractor shall submit for approval of Engineer-in-Charge his workshop / fabrication drawings and the sample of work to be performed under the specified items of work before actually commencing the mass execution of work under the item. Nothing extra shall be payable on this account.
- 1.4 The contractor shall prepare and submit all shop drawings and Bar Bending Schedule to Engineer-in-Charge for approval prior to commencement of work.
- 1.5 The discrepancy in the drawings issued, if any, shall be brought to the notice of Engineer-in-Charge and architect for immediate decision before execution of the work. The contractor, alone, shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous information and no claim whatsoever, shall be entertained on this account.
- 1.6 In the event of any difference or discrepancy in the description of any item or its specifications, the same shall be resolved in the following sequence and decision of the Engineer-in-charge shall be conclusive, final and binding on the contractor:
  - a) The nomenclature of the item shall take precedence over all and anything stated elsewhere.
  - b) The conditions and specifications attached to the tender documents shall take precedence over the provisions of UADD ISSR 2012 with up to date correction slips and relevant IS Codes.
  - c) The UADD ISSR 2012 with amended correction slip up to the date of receipt of tender shall take precedence over provisions of relevant IS Codes.
  - d) In case, it is not possible to resolve the issue with the help of tender documents, the provisions of relevant IS Codes shall be relied upon.
  - e) In case, it is not possible to resolve issue with the help of any of the above stated documents, the decision and directions of the Engineer-in-charge shall be followed for execution and completion of any item of work.

- 1.7 The tenderer shall acquaint himself with the proposed site of work, its sub soil strata, soil investigating reports, underground water tables and its approach roads before quoting his rates. The construction of new approach road or repair of the existing approach and its maintenance during the execution of the work shall all be carried out by the contractor and nothing extra shall be payable over his quoted rates.
- 2. If for any reasons, any part of the site is not available temporarily for some time for part of the work under the contract, the agreed construction schedule shall be suitably modified and contractor shall diligently divert his men and materials to utilize them appropriately, profitably and no claim of damages whatsoever shall be entertained on this account. However, the contractor shall be allowed extension of time for completing the work as deemed fit by the competent authority. The contractor shall also not be entitled to any compensation for any loss suffered by him and revision in the rates quoted by him:
  - a) On account of delay in commencing the work by the contractor
  - b) On account of reduction in the scope of work.
  - c) On account of suspension of work or abandoned after award of work.
- 3. The contractor shall make his own arrangement for obtaining electric connection required for execution of work and make necessary payments directly to the concerned departments and nothing extra shall be payable on this account.
- 4. The contractor shall make his own arrangement for water suitable for construction. The water for construction work shall be got tested quarterly from the laboratory approved by the Engineer-in-charge to ensure its suitability for construction. The charges for these tests and related arrangements shall be borne by the Contractor. In the event of water being found unsuitable for construction, the contractor shall make alternative arrangement for suitable water from any other source to the satisfaction of the Engineer-in-charge. However, the contractor shall not be paid extra on this account.
- 5. The contractor shall construct a sample (mock up) unit and make of samples of different activities complete in all respect as per the directions of the Engineer-in-charge and Architect. This sample unit shall be got approved from the Engineer-in-charge and Architect before commencing the mass work.
- 6. The contractor shall take care of all safety precautions pertaining to construction works, such as scaffolding, ladder, working platforms, gangways, electric arc/ gas welding, use of hoist and construction machinery.
- 7. On account of security consideration, some restrictions may be imposed by the security staff on the working movement of men and materials etc. The contractor shall be bound to follow all such restrictions/ instructions and he shall organize his work accordingly. No claim on this account, whatsoever, shall be payable.
- 8. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards during day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to existing/ new work due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work.
- 9. The Contractor shall take full responsibility for the care of the works and materials and Plant for incorporation therein from the Commencement Date until the date of

issue of the Taking-Over Certificate for the whole of the works, when the responsibility for the said care shall pass to the Employer. The contractor shall be responsible for the watch and ward of the building safety of all fittings and fixtures including sanitary and water supply fittings and fixtures against pilferage and breakage during the period of installation and thereafter till the building is physically handed over to the department. Provided that the Engineer issues a Taking-Over Certificate for any Section or part of the Permanent Works, the Contractor shall cease to be liable for the care of that Section or part from the date of issue of the Taking-Over Certificate.

- 10. The contractor shall take all preventive measures against any damage caused by rain, snowfall, floods or any other natural calamity, whatsoever, during the execution of the work. The contractor shall be fully responsible for any damage to the Owner's property and to the work for which the payment has been advanced to him under the contract. This will also cover the defect liability period. Nothing extra on this account shall be payable to the contractor for maintaining such Insurance Policy.
- 11. Scope of Work during Defect Liability Period
  - A) Defect Liability Period shall be of 24 (Twenty four months) after issuance physical completion certificate of work for the entire works (except water proofing and termite treatment) by the competent authority of the project. The scope of work during this period shall be as follows:-
    - 1) The cost of maintenance shall be deemed to be included in tender and nothing extra shall be paid.
    - 2) Remove defects observed during this period in all permanent structures, drains etc. completely.
    - 3) If any item has manufacturing defect, contractor shall replace the same at his own cost. If it is damaged by any other means, the fixtures/ fittings shall be provided by the Department, and the same shall be installed by contractor at his own cost.
    - 4) Shall got tested every six months the firefighting system to ensure its suitability and functionality.
  - B) Defect Liability shall be of 5 years (Five years) for the water proofing and Anti-termite treatment works of the project. If any defects are observed, they should be rectified immediately by the contractor. An amount of 5% of the total amount of water proofing and Anti-termite treatment works amount of works shall be retained by the department in the form of Bank Guarantee or interest bearing securities from any Nationalized/ Scheduled Bank for Water proofing and Anti-termite works and shall be released after successful completion of the defects liability period.
- 12. The work shall be carried out, complying in all respects, with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed, specifications, conditions of contract, drawings or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account.

- 13. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges which may be liable.
- 14. The contractor shall give due notices to Municipal, Police and/or other authorities that may be required under the law/rules under force in the area and obtain all requisite licenses for temporary obstructions / enclosures and pay all charges which may be levied on account of his execution of work under the agreement. Nothing extra shall be payable on this account.
- 15. Materials to be incorporated in the work shall be arranged by the contractor and shall be in accordance with the specifications and bearing ISI Certification Mark only unless otherwise specified or allowed in writing by the Engineer-in-Charge. Any material banned by the department shall not be used in the work. In case of specific items the material shall be in accordance with the enclosures approved items.
- 16. The contractor shall submit to the Engineer-in-charge and Architect samples of all materials for approval. Such samples of materials which affect aesthetics of the work shall also be got approved from the Engineer-in-charge and Architect of the project before procuring bulk supplies. These approved samples shall be preserved and retained in the custody of the Engineer-in-charge as standards of materials till the completion of the work. The cost of such samples shall be borne by the Contractor and nothing shall be payable on this account over the Agreement rates.
- 17. The contractor shall be required to get all the necessary mandatory and other tests as per the specifications/ IS codes, carried out on materials/ work from an approved laboratory as per the direction of the Engineer-in-charge. The testing charges and conveyance from the site shall be borne by the contractor.
- 18. In case any material, work is found sub-standard the same shall be rejected by the Engineer-in-charge/ Architect representative and the same shall be removed from the site of work within 48 hours, failing which the same shall be got removed by the Engineer-in-charge at the risk and cost of the contractor without giving any further notice and time.
- 19. The treads and risers in staircase, door & window sills shall be in single piece stone only, unless otherwise shown on the drawings or as directed by Engineer-in-Chief & Architect.
- 20. In order to ensure quality of work during its execution, the Engineer-in-charge and Architect representative may require samples for mandatory or routine testing of materials. All costs of these samples, their packaging, conveyance from the site to the testing laboratory and return, shall be borne by the contractor.
- 21. Even ISI marked materials may be subjected to quality test at the discretion of the Engineer-in-charge/ Architect. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the Engineer-in-charge/ Architect, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the materials procured by the contractor, satisfy the provisions of relevant ISI codes. The testing charges shall be borne by the contractor. However, cement/ steel will be necessarily tested before start of work and also during the execution of work as per the requirements of specifications and will not

- be used until test certificates are obtained and approved by Engineer-in-Charge/ Architect
- 22. The contractor shall procure minimum 43 grade (conforming to IS:8112) Ordinary Portland Cement only as required for the work from the reputed manufacturers of cement, i.e. from A.C.C., J.P., Ultratech, J.K. or Birla only as approved by the employer. Supply of cement shall be taken in 50 kg bags bearing manufacturers 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 relevant IS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant IS codes, the same shall stand rejected and shall be removed from the site by the contractor at his cost within a week's time of the written order from the Engineer-in-charge to do so.
  - (i) The cement shall be brought at site in not less than 25 tons lots or as decided by the Engineer-in-charge / Architect.
  - (ii) The cement store room shall have a capacity of minimum of 2000 bags of cement. The store should be constructed by the contractor at site of work for which no extra payment shall be made. The contractor shall be responsible for the watch and ward and safety of the cement store room. The contractor shall facilitate the inspection of the cement store room by the Engineer-incharge at any time.
  - (iii) The contractor shall supply free of charge the cement/other material required for testing. The cost of tests shall be borne by the contractor.
  - (iv) The actual issue and consumption of cement on work shall be regulated and proper accounts should be maintained. The theoretical consumption of cement shall be worked out as per procedure prescribed in the contract and shall be governed by conditions laid therein.
  - (v) Cement brought to site and remaining unused after completion of work shall not be removed from site without written permission of the Engineer-incharge at any time.
- 23. The contractor shall procure steel reinforcement bars TMT-FE-500 only (Thermo-Mechanically Treated bars) conforming to relevant IS codes from SAIL, TISCO, VAIZAG, RINL & Jindal only. Structural steel of main Producer TATA, SAIL & Jindal only shall be permitted for use. The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-charge as per the provision in this regard in relevant IS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from the written orders from the Engineer-in-charge to do so. The cost of steel, testing charges and to & fro cartage shall be borne by the contractor.
  - (i) The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and 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 at any time as and when desired by the Engineer-in-charge/ Architect.
- (ii) The contractor shall supply free of charge the steel required for testing.
- (iii) The actual issue and consumption of steel on work site shall be calculated and proper accounts shall be maintained. The theoretical consumption of steel shall be worked out as per the standard procedure and shall be governed by conditions laid therein.
- (iv) Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 24. The work shall be executed and measured in metric system. The metric dimensions given in the schedule of quantities and drawing, etc. shall be followed. (The dimension in FPS units wherever indicated, is for guidance only). The figures in the drawings shall be followed.
- 25. For measurement purpose the floor level shall mean the top surface of main structural RCC slabs of that floor and not the top of sunken floor of toilets or any other depressed floor.
- 26. The contractor shall be responsible for completing the work and for satisfying all terms and conditions of the contract without any extra payment over his quoted rates unless otherwise specified. The contractor shall quote his rate for various items of work accordingly and no claim whatsoever shall be entertained for any incidental or extra work involved in the execution of the work as per nomenclature of the item and the specifications indicated in the tender documents.
- 27. Subject to the nomenclature of the item as per schedule of quantities, the specification indicated in the tender documents, the rates quoted shall include cost of all materials including royalty and taxes if any, labor, sundry inputs, execution of work at all heights, levels, pattern and design for all leads, lifts and depths including overhead charges and contractor's profit. Nothing extra shall be paid on this account.
- 28. The rate shall be inclusive of making design, pattern and execution of work as per Architectural and structural drawings, at all levels and heights.
- 29. The rates shall be inclusive of making any holes in walls/ RCC work for fixing any fixture/ frame work and making good the structure to its original shape and finish.
- 30. The rate of items of flooring shall be inclusive of work for sunken or depressed floors.
- 31. The rate shall be inclusive of working under water and adverse or foul conditions and including pumping out or bailing out water, dewatering unless otherwise specified in the nomenclature. This will include water encountered from any source such as rains, floods and any other cause whatsoever and including sub-soil water.
- 32. Other agencies doing works related with this project will also simultaneously execute the works and the contractor shall afford necessary co-ordination for unhindered completion of these sub-works.

- 33. The contractor shall leave necessary holes, opening, etc. as may be directed by the Engineer-in-Charge for lying, burying or fixing, conduits, pipes, boxes, hooks, fans etc. Conduits for electrical wiring/ cables shall be laid in a way that they leave enough space for concreting and do not adversely affect structural members.
- 34. The contractor shall give a satisfactory performance test of installations individually and as a whole to ensure their proper functioning before the work is finally declared and completed and accepted.
- 35. The contractor shall continue to maintain watch and ward to safeguard the Owner's property in his possession until the same is formally handed over as per directions of the Engineer-in-charge. Nothing extra shall be paid on this account.
- 36. All tools, plants and measuring or weighing equipments shall be arranged by the contractor himself and nothing extra shall be paid to the contractor on this account.
- 37. The contractor shall protect the adjoining buildings or works and the work under execution from fire and shall make adequate arrangements for fire protection and fire fighting and if any property is damaged by fire due to the negligence of the contractor, the same shall be made good by the contractor at his own cost to the complete satisfaction of Engineer-in-charge.
- 38. The contractor shall provide adequate lighting arrangements as approved by the Engineer-in-charge for carrying out the work during night time, if so required and also provide all other facilities for the labour employed to carry out the work as per direction of Engineer-in-Charge. Nothing extra shall be paid on this account
- 39. In order to achieve the targeted date of completion the contractor may have to work in multiple shifts, round the clock including public and gazetted holidays and nothing extra shall be paid on this account.
- 40. The contractor shall get the samples of all the materials to be used in the work approved from Engineer-in-Charge and Architect before going for bulk procurement. Bulk procurement shall be taken up only after obtaining approval from the Engineer-in-charge. Any delay in getting the samples approved shall be contractor's responsibility.
- 41. All materials, articles and workmanship shall be of respective best quality and kind for the class described in the schedule of quantities and specifications. All materials so used in different items of work shall be subject to the approval of the Engineer-incharge and Architect.
- 42. The contractor shall be responsible for all statutory provisions and deductions towards ESI, PF or any other, as the case may be or any other levies and taxes shall be borne by the contractors.

Taxes: All duties and taxes including Commercial Tax, VAT, Works Contract Tax, Service Tax, TDS, Octroi, Duties, Royalties, Labour Welfare Cess and any other direct or indirect taxes and duties levied by the Central Government, State Government, Local Bodies and any other Government agency or private individuals on the contractor's work are inclusive in the contract/ tender price of this tender and such taxes and duties will be borne and paid by the contractor.

- 43. The contractor is supposed to abide by the minimum wages act, and shall produce all records to the Engineer-in-charge or any other statutory authority as and when called for. The Engineer-in-charge does not hold any responsibility on account of any lapses in this regard.
- 44. For any clarification/ doubt, the employer/Progressive view may organize regular meetings with Contractor. The contractor shall attend such meetings invariably as and when required.
- 45. Management review meetings shall be held monthly or at discretion of the Engineer-in-Charge with a notice of 7 days and senior management personnel from the contractor shall be present during such meetings. Nothing extra shall be paid on this account.
- 46. In respect of the work of other agencies, where the commencement or progress of such work of any other agency is dependent upon the completion of particular portions of the contractor's work or generally upon the contractor maintaining progress in accordance with the approved coordinated construction program, it shall be the responsibility of the Contractor to complete such portions and maintain such progress. Should any difference arise between the contractor and the other agencies, these shall immediately be brought to the attention of the Engineer-in-Charge who after reviewing the matter(s) causing the differences will give their decision which shall be final and binding on the contractor.
- 47. The contractor shall have to do all drilling of holes and cutting of walls, chases or other elements of the building for the complete and proper installation of the pipe lines / ducts other equipments by using electrically operated tools such as drills / chases cutting machine etc. Manual drilling or chiseling or cutting shall be permitted on special request only. No chiseling or cutting or drilling of RCC columns, beams, girders and other principal structural members shall be done unless prior permission has been granted by the Engineer-in charge in writing.
- 48. All chases and openings made by the contractor for his pipe lines shall be filled / covered over with cement plaster in reasonable manner. Before rough plastering on the pipe surfaces the concealed pipes shall be secured to the wall by using proper supports / clamps.
- 49. After completion of work and before issuance of certificate of completion the contractor shall submit eight (8) sets to the Engineer-in-charge all the as-built drawings including layout drawing drawn at an appropriate scale and with 2 copies on CD/DVD indicating the complete PLUMBING/ SANITARY / Electrical system 'as installed', with written approval of Engineer-in-charge on the 8 sets.
- 50. The contractor shall prepare and produce instruction, operation and maintenance manuals with warranties and guarantees in English for the use, operation and maintenance of the supplied equipments and installations, and submit to the Engineer-in-charge in (8) copies at the time of handing over. Generally these consist of the following:
  - a. Description of the project
  - b. Operating instructions

- c. Maintenance instructions including procedures for preventive maintenance
- d. Manufacturer's catalogues
- e. Spare parts list
- f. Trouble shooting charts
- g. Drawings
- h. Type and routine test certificates for major items
- i. One (1) set of reproducible 'as built' drawings on appropriate material as directed by Engineer-in-Charge
- j. Warranties and guarantees of Installed Plant and Equipment and other work like waterproofing, Anti-termite treatment of the soil
- 51. (i) The Contractor shall employ competent fully licensed/ qualified plumber for the work of Plumbing/ Sanitary installations in accordance with the drawings and specifications. The licensed plumber shall be available at all times at site to receive instructions from the Engineer-in-Charge in the day to day activities throughout the duration of execution of plumbing/ sanitary work.
  - (ii) On completion of the Plumbing/ Sanitary installation a certificate shall be furnished by the contractor, countersigned by the licensed plumber under whose direct supervision the installation was carried out. This certificate shall be in the form as required by the Engineer-in-charge.
- 52. The contractor shall not be provided storage/ office space for his use. The space has to be constructed/ maintained by the contractor as per his usage requirements. The contractor shall arrange to provide site office accommodation at an appropriate location for employer. Staff and Architect's Staff, along with all required good quality office furniture, as directed by Engineer-in-Charge/ Architect for which no extra payment will be made. All spaces allotted to the contractor as described above shall be vacated and all structures shall be removed from site at any time as and when required and directed by the Engineer-in-charge unconditionally and without any reservation. The Engineer-in-charge will not be obliged to give any reason for such removal. Upon receiving instructions to vacate the space, the contractor shall immediately remove all his structures, materials, etc. from the sources and clear and clean-up the site to the satisfaction of the Engineer-in-charge. It shall be the responsibility of the Contractor to safeguard the site and ensure that no illegal encroachments are made by outside elements within the area allotted to the contractor. Upon completion of the work or earlier as required by Engineer-in-Charge, the contractor shall vacate the land totally without any reservation.
  - (ii) The contractor will arrange to erect, at his own cost, G.I. Sheet fencing or other approved appropriate fence around the infrastructure site, with entry/exit gates at suitable points. The contractor shall, at his own cost, provide and erect suitable fencing around the spaces allotted to him at the infrastructure sites to ensure the security of his men, materials and equipment within the sites and in relation to other contractors who will also be allotted spaces at above sites. The security of workmen, materials, equipment stores etc. within the area allotted to the contractor shall be the responsibility of the contractor.
  - (iii) The office shall have computer facilities with following computer configuration along with printers, plotters, photocopiers etc.:-
    - (a) Processor: Core I3, 3.10 GHz: 4NOS

- (b) RAM: 4GB (min) A+ HDD 500 GB
- (c) DVD ROM Drive with DVD writer,
- (d) Mouse, Keyboard, Modem.
- (e) Plotter: Sufficient for A1 size Page
- (f) Photocopier: Sufficient for A3 size page.
- (g) High Speed Broadband Internet connection
- (i) Digital Camera with Data Transfer capabilities.
- (j) Software shall be as required.
- (iv) The contractor shall periodically take photographs / videos of site prior to commencement of work, during construction and after completion of work as suggested and shall submit the photographs / videos in soft and hard copies to employer and Architect for which no extra payment will be made. The contractor shall, apart from the above, take photographs or digital videos of critical elements as instructed by Engineer-in-Charge and submit the same for which no extra shall be payable.
- (v) Site order book with numbered pages shall be kept on site. Contractor shall carry out all instructions properly and to the satisfaction of Engineer-in-Charge.
- 53. The Contractor(s) will have to keep on site complete survey instruments like Total Station / Theodolite / Auto Level along with full time technical personal to operate those instruments to facilitate and obtain the information required as instructed by Engineer-in-Charge and Architect, for which no extra payment will be made.
- 54. If required and directed by Engineer-in-Charge or Architect, contractor shall arrange visits of his personnel comprising of Engineer-in-Charge's, Architect's representative etc. to various places/ plants in or outside project town to check and verify the quality of material at manufacturer's places. No extra cost shall be given for this to contractor.
- 55. The site of the work shall have a full-fledged testing laboratory (of minimum 25 sq.m.) equipped with the following equipments for testing of materials, This laboratory shall be established at work site by the contractor at his own cost and nothing extra shall be payable on this account. Test report or material shall be maintained for inspection to be done by the employer at all times in the testing laboratory by the contractor. **Refer Annexure-I (Format:I-4)**
- 56. The number of equipments for testing shall be decided as per the quantum of work and frequency of test and contractor shall provide for the same accordingly.
- 57. The list of mandatory tests is as follows:

Material	Test	Relevant IS Code of testing	Field/ Laboratory Test	Minimum quantity of materials/ work out test	Frequency of testing
Sand	a) Silt content	IS:2386 part-I	Field	20 cum	Every 20 cum or part thereof or more frequently as decided by the Engineer-in-Charge.
Stone	a) Percentage	IS:2386 Part-	General visual		As required by

Material	Test	Relevant IS Code of testing	Field/ Laboratory Test	Minimum quantity of materials/ work out test	Frequency of testing
Aggregate	of soft or deleterious material	II	inspection, laboratory test where required by the Engineer - in-Charge		Engineer-in-Charge.
	b) Particle size distribution	IS:2386 Part-I		45 Cum	For every 45cum or part thereof as decided by the Engineer-in-Charge
	c) 10% fine value	IS:2386 Part-IV	Laboratory	45 cum	Initial test and subsequent test as and when required by Engineer-in-Charge.
Cement Concrete, Reinforced Cement Concrete (not) leaner than M15	Slump test	IS:1199	Field	15 Cum	15 cum or part thereof or more frequently as required by Engineer-in-Charge.
Reinforced Cement Concrete	Cube strength	IS:456	Field	As per relevant IS Code	
Steel (if arranged by the contractor)	a) Tensile Strength b) Bend Test	IS:1608	Laboratory	As per IS Code	Every 20 tonne or part thereof confirming to IS:1786-1985
Cement (if arranged by the contractor)	a) Test for initial and Final setting Times	IS:4031	Fiel	10 tonne	IS:4031-1988
,	b) Test of Determination of compressive strength of Cement	IS:4031	Field	50 tonne	IS:4031-1988
Bricks	Testing of Brick			As per relevant IS Code	For every 1,00,000 bricks or part thereof.
	a) Dimension	IS:1077	Laboratory/ Field	As per relevant IS Code	
	b) Water absorption & efflorescence	IS:3495	Laboratory	As per relevant IS Code	
	c) Compressive strength	IS:3495	Laboratory	As per relevant IS Code	

Material	Test	Relevant IS Code of testing	Field/ Laboratory Test	Minimum quantity of materials/ work out test	Frequency of testing
Brick tiles	a) Compressive strength & dimensions	IS:3495	Laboratory	50000	For every 50000 or part thereof.
	b) Water Absorption				One test for source of manufacture.
Marble	a) Moisture Absorption	IS:1130	Laboratory	Cost of Marble work Rs. 10000	Rs. 1000 or part thereof if required by Engineer-in-Charge.
Timber	a) Moisture Contents	IS:11215	(By moisture meter field / laboratory test in case of dispute as required by Engineer-in-Charge.	1 Cum	Every one cum or part thereof.
Flush door	a) Emersion Test b) Knife test c) Adhesion	IS:2191 and 22021	Laboratory		For testing of shutters discretion of Engineer-in-Charge may be adopted however a certificate from the manufacturer may be taken for the quality of the product. If required necessary testing may be done as per IS Code.
Aluminium door or windows fittings	Thickness of Anodic Coating	IS:1948	Laboratory	If the cost of fittings exceed Rs. 3000	Rs. 5000 or part thereof required by the Engineer-in-Charge.
Mortise Lock	Testing of Spring		Laboratory	50 Nos.	100 or part thereof.
Terrazzo Tiles	a) Transverse Strength	IS:1237	Laboratory	2000 tiles	2000 tiles of part thereof.
	b) Water Absorption c) Abrasion				
White Glazed	Test a) Water Absorption	IS:777	Laboratory	3000 Nos.	3000 Nos. or part thereof.

## **Sampling of Concrete:**

The minimum frequency of sampling of concrete or each grade shall be in accordance with the following:-

Quantity of concrete in	Number of Comples
work (Cum)	Number of Samples

1-5	1
6-15	2
16-30	3
31-50	4
51 and above	4 plus one additional sample for each additional 50
	cum or part thereof.

<u>Note</u>: At least one sample shall be taken from each shift. Where concrete is produced at continuous production unit, such as ready mixed concrete plant, frequency of sampling may be agreed upon mutually by supplier and purchasers.

- 58. Minimum 20% of the prescribed number of tests of the material to be used in the work shall be got tested at National Accreditation Board for Testing and Calibrating Laboratories (NABL) accredited testing laboratory at cost of the contractor, and nothing extra shall be payable on this account.
- 59. All the records of tests carried out shall be maintained at site by the contractor and shall be available at all times for inspection.
- 60. The contractor shall arrange minimum plant and equipments as Annexure-I (Format:I-5) at site for the execution of work. These may have to be increased depending on the requirement site.
- 61. The quantities indicated are for guidance only. However, it may vary to any extent and the contractor should not have any financial or other implications for such variations. The employer reserves the right to reduce the scope of work of any item if the contractor fails to deliver the works in time and the contractor shall not ask for any financial consideration for such deletion of scope of the work.
- 62. All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered / excavated on the Site shall, as between the Employer and the Contractor, be deemed to be the absolute property of the Employer. The Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing or damaging any such article or thing and shall, immediately upon discovery thereof and before removal, acquaint the Engineer of such discovery and carry out the Engineer's instructions for dealing with the same.63. Any excavated material, as deemed fit for use in the works, shall be put to use by the contractor as instructed by the Engineer-in-Charge. All such materials used shall be deducted from the payment for works at a rate as decided by the Engineer-in-Charge.
- 64. All statutory approvals and sanctions from Electrical Inspectors and respective electric supply and regulatory authority for Permanent connection etc. are to be obtained by the Contractor at no extra cost. Only the official payment made in the Government treasury for deposit etc. will be reimbursed against the treasury slip.
- 65. All statutory approvals for Permanent Water, drainage, fire fighting, Municipal and other services are to be obtained by contractor at no extra cost. Only the official payment made in the Government treasury or to the local bodies for deposit etc. will be reimbursed against the treasury slip.
- 66. The contractor shall have to furnish a ROYALTY CLEARANCE CERTIFICATE from the District Collector before final bill.

- 67. The contractor has to get himself registered regarding the service tax with the Commissioner, Customs, Central Excise & Service Tax, Government of India as per rules applicable.
- 68. All statutory approvals for permanent fire NOC and other services are to be obtained by contractor at no extra cost. Only the official payment made in the Government treasury or to the local bodies for deposit etc. will be reimbursed against treasury slip.

#### 69. Road Works

- i. The contractor shall have to produce test certificate in the Performa prescribed/ approved by BIS, from the manufacturer for every batch of steel brought to site of work.
- ii. Top layer of B.C. Soil is to be removed up to the required level and sub grade should be compacted up to at least 97% of maximum dry density. The compaction would be done by soil compactor Vibratory rollers.
- iii. All road works shall be carried out in accordance with MORT&H latest specifications.
- iv. No lead will be payable for transportation of excavated materials. The excavated materials shall be spread and dressed anywhere in the campus area itself / nearby up to a distance of 5 Kms as per direction of Engineer-incharge.
- v. The cost of materials consumed on testing either at site or in different laboratory and the cost of testing will not be paid.
- vi. Frequencies of the prescribed tests to be carried out must not be less than the prescribed frequencies in MORT&H latest specifications and relevant IS codes. Copies of register containing record of such tests shall be presented along with running bill. Test shall be conducted by the contractor's engineer under the supervision of the Engineer-in-charge or his authorized representatives.
- vii. Frequent testing as desired by the Engineer-in-charge and Architect will have to be carried out at other reputed laboratory to check the quality of materials procured by the contractor at site and to check the quality of the work executed. All charges for testing shall be paid by the contractor, failing which the same shall be got done by Engineer-in-charge and charges shall be recovered from the contractor's bill at double the rates charged by the testing agency.
- viii. All RCC pipes shall be as per the latest IS code no 458 & ISI marked pipe shall be of Socket & spigot type only. Contractor should produce the certificate in support of the same.
- ix. Contractor shall have to submit Royalty clearance certificate for the materials consumed from the concerned authority along with the bills.

#### 70. Special Conditions for Electrical Works

i. The estimate and working drawings for entire electrical works is to be got approved by the contractor from concern M.P. Viduyat Vitran Co. Ltd. before

- execution of work. All the electrical lines and sub stations etc. i.e. Electrical works should be got installed by contractor after getting necessary shut down, if required from concern M.P. Viduyat Vitran Co. Ltd. and he has to obtain all necessary permission from state / central or other departments as and when applicable before and during the construction or execution of work.
- ii. The contractor has to maintain all safety precautions as per rules and regulations of Indian Electricity Act, M.P. Licensing Board, concern M.P. Viduyat Vitran Co. Ltd., all concerned departments of Central Government and State Government etc. The contractor shall be fully and solely responsible for the insurance of his own work, material, working staff, employee and directly or indirectly employed labourers / working and any accident or any damage caused to any person or property from / during the course of execution of the work till handing it over to concern M.P. Viduyat Vitran Co. Ltd. / Municipal Corporation / or other Competent Authority as applicable for the work. Any officer/employee / consultant of the employer shall not be responsible for any accident or any damage caused to any person or property for during the execution of the work till handing it over to the departments mentioned above and thereafter.
- iii. All material supplied and installed shall be of the best quality and strictly as per the approved makes only as approved by architecture, Engineer in charge. RMC reserves the right to get any or all items checked at contractor's cost from any Government Laboratory (CPRI/ NABL/ eRDA etc.) Government approved/ Private Laboratory of national or local level as required. The quality of items should be as per relevant IS specifications or described in items. The samples of all materials (as required) shall be got approved by EIC / technical committee before installation and execution of work. Samples approval / rejection on any parameter should be binding on contractor and department does not bind himself to give any reason for his decision. The contractor shall arrange testing for any parameter of material / equipments at site or at approved laboratories or at factory. No extra cost shall be paid for any expenses occurred in such testing contractor shall bear all the cost of travelling, lodging etc. of inspection team. To assure that all material installed by the contractor is genuine the contractor should purchase all material of approved make through authorized agent or representative of the manufacturers of approved make. If required by the Engineer-in-charge / Engineer (Electrical), the contractor shall show the original purchase bills and submit photo copies of these bills and the original certificate from the manufactures showing that the material supplied / installed is genuine.
- iv. The drawing which may be issued with the tender are diagrammatic and indicative to the arrangement of various components of the Systems and to the extent of work. But the actual work to be carried out will be as per the approved working drawings which can vary to any extent. The quantities given in the tender may vary and some items may not be used at all depending on work conditions and / or concern M.P. Viduyat Vitran Co. Ltd. requirements and the contractor shall have no claim on this account.

- v. Contractor has to prepare detailed working drawings, shop drawings, fabrication drawings based on the basic of General Arrangement drawings / guidelines as per the relevant Standards, specifications site / situations rules and laws and he will get prior approval for these drawing from Competent Authorities / departments and Engineer-in-charge before starting the work. After approval, contractor shall make the requisite changes as suggested and submit the final execution drawing in six copies will be returned to him for execution duly signed by EIC & Consultant. No. extra cost shall be given for this to the contractor.
- vi. On the completion of the work the contractor shall supply completion drawing in 3 copies with original tracing. A soft copy of completion drawings (on AutoCAD) shall also be provided by the contractor. All test reports of the internal and external electrification installation in three copies shall be handed over to engineer in-charge in good condition by the contractor before finalization of his final bill. The contractor shall supply all above items free of cost.
- vii. After completion of the entire work, test report should be submitted to the Competent Authorities of concern M.P. Viduyat Vitran Co. Ltd. and M.P. Licensing Board and also to the Engineer in Charge and NOC is to be obtained from M.P. Licensing Board and submitted to the Competent Authorities of concern M.P. Viduyat Vitran Co. Ltd. and RMC Necessary charges (Government Fees) will be paid by RMC for charging of work.

The contractor has to get the entire electrical work charged and the entire external electrification work including the lighting installation should be handed over to concern M.P. Viduyat Vitran Co. Ltd. / Municipal Corporation / or other Competent Authority as applicable in this matter as per the instructions of the Engineer in Charge.

During the maintenance period the contractor / agency have to carry out all necessary repairs within required period looking to the urgency of work as decided by engineer in- charge. The maximum limit, if allowed by engineer-in-charge, shall be 3 days of receipt of such communication from Engineer-in-charge. If defects & damages are not rectified to full satisfaction of engineer-in-charge within time limit, then department reserves right to get the work done by any outside agency & amount paid for such works will be recovered from the amount deposited by contractor / agency against Performance & Ma`intenance Security & Security Deposit etc.

Handing over formalities must be done by agency / contractor immediately after completion of work along with charging of line and if any bonafide intention of delay is observed n that case department reserves the right to with hold/ encases security of the contractor / agency and no separate advance notice to this respect shall be necessary.

71. Special conditions as mentioned above shall supersede the relevant clause(s) of the NIT, conditions of contract and relevant condition(s) of relevant SOR

# SECTION 4 BILL OF QUANTITIES (BOQ)

Attached with this tender separately

## **SECTION 5 AGREEMENT FORM**

## **AGREEMENT**

This	agreement, made on the day of between		
	(name and address of Employer) (hereinafter called "the Employer")		
and_	(name and address of contractor) hereinafter		
called	d "the Contractor" of the other part.		
	Whereas the Employer is desirous that the Contractor execute (name and identification number of		
Contr	ract) (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for		
	xecution and completion of such Works and the remedying of any defects therein, at a cost of Rs.		
	<del></del>		
NOW	THIS AGREEMENT WITNESSED as follows:		
1.	In this Agreement, words and expression shall have the same meanings as are respectively		
Δ.	assigned to them in the conditions of contract hereinafter referred to and they shall be		
	deemed to form and be read and construed as part of this Agreement.		
2.	In consideration of the payments to be made by the Employer to the Contractor as		
	hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and		
	complete the Works and remedy any defects therein in conformity in all aspects with the		
	provisions of the contract.		
3.	The Employer hereby covenants to pay the Contractor in consideration of the execution and		
	completion of the Works and the remedying the defects wherein Contract Price or such		
	other sum as may become payable under the provisions of the Contract at the times and in the		
	manner prescribed by the Contract.		
4.	The following documents shall be deemed to form and be ready and construed as part of this		
	Agreement viz.		
	i. Letter of Acceptance		
	ii. Contractor's Bid		
	iii. Condition of Contract: General and Special		
	iv. Contract Data		
	v. Bid Data		
	vi. Drawings		
	vii. Bill of Quantities and		
	viii. Any other documents listed in the Contract Data as forming part of the Contract.		
In wi	tnessed whereof the parties there to have caused this Agreement to be executed the day and		
	first before written.		
•	The Common Seal of was hereunto		
affixe	d in the presence of:		
	Signed, Sealed and Delivered by the said		
	in the presence of:		
Bindi	ng Signature of Employer		
Bindi	ng Signature of Contractor		

## SECTION 6 LIST OF APPROVED MAKES

LIST OF APPROVED MAKES/BRANDS AND MANUFACTURES

#### LIST OF APPROVED MAKES OF EQUIPMENTS / MATERIAL

The following are the list of approved brands/makes of equipments required under this tender. Please note that wherever there is a multiple choice of brands/makes approved, any one make as nominated by the Employers/Consultants will have to be supplied by the Contractor without any extra cost to the employers. No deviation in this will be accepted by the employers.

I/We hereby declare that I/We have read and understood the above instructions which have been issued as conditions of the contract.

In case any of the makes for any of the materials is missed out in the following list, then the contractor shall inform the Consultants about the same and obtain the approval. Thereafter, he can produce with the supply of the materials of said approved make

LIST OF APPROVED MAKES/BRANDS AND MANUFACTURER FOR CIVIL, PLUBING AND MISCELLANEOUS ITEMS

Cement for RCC works [43 grade (conforming to IS 8112) Ordinary Portland Cement] ACC, Ultra-Tech, J.P. Rewa, Vikram, Shri. Cement Birla Jute and Cement Corporation of India or from reputed manufacturers of cement having production capacity not less than one million tonnes or more per annum as approved by the Ministry of Industry, Government of India and holding license to use ISI certification mark for their product.

Cement for Non- RCC Works: ACC, Rajashri, , Ultra-Tech, Vasavdatta, Gujrat Ambuja Zuari, Coromondal, Ramco or from reputed manufacturers of cement having production capacity not less than one million tonnes or more per annum as approved by the Ministry of Industry, Government of India and holding license to use ISI certification mark for their product.

#### STEEL:

TMT Steel (Fe 500 grade): SAIL / TISCO /RINL/JSW.

In case of non-availability of steel from primary producers such as SAIL / TISCO /RINL/JSW the NIT approving authority may permit secondary producers of TMT reinforcement bars provided the secondary producers satisfy the following conditions:

The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786: 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT

Bars and shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.

The TMT bars produced from primary producers shall conform to manufacturer's specifications.

TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786 : 2008 pertaining to Fe 415D or FE 500D or Fe 550D grade of steel as specified in the tender.

MILD STEEL (Fe 250): SAIL / TISCO / RINL /JSW or main product and secondary product having valid BIS licence

Sr No.	Details of Materials	Approved Make / Brand / Manufacturer's
		Name
1	Binding wire	18 gauge PVC coated galvanized binding
		wire
2	Bricks	Clay Bricks
		Fly Ash Bricks
3	Red Sand Stone	size upto 1mx1m, fixed to structural steel
		frame work
4	Cover Blocks	Factory made Concrete cover blocks
		(ASTRA make).
		(
5	White Cement	JK cement / Birla white cement/ La Farge
6	Water proofing Chemicals/ System	BASF,Sika, Fosroc,Pidilite ,Carlise,Fire
		Stone
7	Concrete Admixtures	M.C.Bauchemie,Fosroc,Pidilite,CICO,Sika
		BASF, Asian Laboratories, Ultracon
8	Gypsum Partition	India Gypsum ,Armstrong , Saint Gobin,
	dypsam randicion	Lafarge , Hunter Duglus, Anutone, Super
		Sil, Hilux, Ramco.
9	Silicon / Polyurethane Sealant	Fosroc / G.E. Silicones / Dow-Corning,/
		Wacher Silicon, /Holex,/ Decot, Sika /
		choksey chemicals
10	Structural Steel/MS	JSW / SAIL / TISCO /Jindal Steel & Power
		Ltd, Rashtriya Ispat Nigam Ltd
11	RHS/SHS Closed Structural	SAIL/TISCO / RINL /JSW
12	Hi tensile black bolts	Guest Keen Williams (GKW) / TVS (8.80

Sr No.	Details of Materials	Approved Make / Brand / Manufacturer's Name
		Grade)
	Aluminum Structural Members – Windows, Glazing and Partitions	Jindal ,Indalco ,Hindalco,Nalco,Bhoruka
13	DOORS & WINDOWS	
а	Flush door	Century, Green, Merino, Duro, Archid, Truwood.
b	FRP door	Diamond / Kutty / CIL /Fenesta / Wintech Aluplast or equivalent
b	Glass	MODIGUARD, SAINT GOBAIN, ASAHI INDIA, CONTINENTAL
d	Floor springs	SEVAX, DORMA, Everite, Omega, Everest universal 68, HINDUSHAN, GODREJ,RITZ, Kich, NeKi
е	Hydraulic / concealed Door Closer	EVERITE, HINDUSTAN, Ozone, DORMA, Godrej, Ritz/Arch
f	Door Accessories	Dorset /Kich /EBCOLAM /Blum /Emtek /kwikset /Deltana /Omnia/Godrej / Shalimar /Ramson/ /Reliance/Punit/Arch
g	Cylindrical Lock, Rim Lock	GODREJ, EUROPA, DORMA, Blum
h	SS Mortise lock with one dead bolt and pair of SS handles steel grade – SS304	Dorma, Hafele ,Godrej, Dorset
i	SS Tower bolt	Dorma, Hafele ,Godrej
j	S. S. Patch Fittings	DORMA/GIESSE /CASMA
k	S. S. Friction Hinges	EBCO SECURISTILE, COTSWORLD
I	S. S. Handles, Hinges	Vista or confirming to ASTM 304 grade /Arch / Kich/ Dorma/ Ingersoll Rand /Godrej
m	RESIN ANCHOR / Anchor Fasteners	HILTI /FISCHER /CANNON
n	Laminates	Merino, Greenlam, Century, Novapan, Archid, Duro
0	Plywood	Merino, Greenlam, Century, Novapan, Archid, Duro
р	Veneer	Merino, Greenlam, Century, Novapan,

Sr No.	Details of Materials	Approved Make / Brand / Manufacturer's Name
		Archid,Duro
q	Adhesive for woods	Dunlop / Fevicol / Vamicol / Pidilite /woodlocks
r	Hermitically Sealed & Toughened Glass	Saint Gobain, Guardian Glass, Pilkington, Modiguard
S	Glazing - Structural / Suspended/ Skylight	Saint Gobain / Glaverbel /Pilkington
t	Fire Resistant Doors / Acoustical Doors /Metal (G.I doors)	Iclean, Promat, Shakti, Navair, Signum, Fire Protection, Kutty Flush Doors & Furniture, Shakti Metdoor
u	Doors (Automated, Revolving & Sliding Doors)	Manusa /Dorma /Besam
V	Rolling Shutters	Grand Entrance Automation / Anand Automatic Systems/Technocrats
W	Fire Rated Vision Panels	Pilkington ,SCHOTT,FERILITE,Saint Gobain ,Glaverbel
У	Pre-Laminated Particle Boards	Merino, Greenlam, Century, Novapan , Archid
Z	PVC Doors	Rajeshree Plastiwood, Fenesta, Wintech ,Aluplast or Equivalent
aa	Nuts / Bolts & Screws	GKW, Hilti ,Atul
ab	Aluminium composite panel	Kalzip Reynobond ,Aluco Bond ,Alpolic
	Aluminum Louvers	Hunter Douglas, Colt, Kawneer
14	Ceramic/Vitrified/Glazed tiles/Granite Tile	NITCO, JOHNSON, SOMANY, EURO, KAJARIA, BELL, ENDURA, NAVEEN, SPARKTEK, REGENCY, ORIENT, SONARA, ASIAN, SIMPOLO
15	PRE CAST CEMENT CHEQUERED TILES	QUALICRETE, ULTRA
16	PRECAST CONCRETE KERB STONES/SLABS	ASTRA, MICHAEL & MICHAEL, NITCO,Unitile, Ultra, Dalal Tiles Industries.
17	Tile / Stone Adhesive/Tile Grout	Pidilite, Ferrous, Crete ,MYK Laticrete, Fosroc, BASF
18	Galvalume/Zincalume Sheets	TATA BLUESCOPE, EVEREST, BHUSHAN, JSW , Llyod, Manderine Tiles, Max roofing system, Mccoy, CHETANSOOD

Sr No.	Details of Materials	Approved Make / Brand / Manufacturer's Name
19	Aluminium Sheets	Kalzip/Bemo/ Sankyo /Equivalent
20	Cement concrete Paver blocks	Basant Beton, Pavewell ,Desai Pavers, Ultra, Spectra, supertile
21	SELF-DRILLING SCREWS FOR ROOF SHEETS	Kalzip/Corrodex / ITW / Corroshield
22	ANTI-TERMITE TREATMENT AGENCIES	Pest Control of India, Express pesticides corp, Flite Corp, Tata Termex, Chloropyrichos, Vrindavan Agricultural Services, Pepsop Pest Control Services
23	PAINTING	
а	Primer : Exterior Primer	BP White (Berger), Decoprime WT (Asian), Akzonobel (Dulux), Nerolac
b	Primer : Interior Primer	BP White (Berger), Decoprime WT (Asian), Akzonobel (Dulux), Nerolac
С	Synthetic Enamel	Akzonobel (Dulux), Asian (Apcolite), Kansai Nerolac(Synthetic Enamel)), Berger
d	Textured Exterior Paint	Akzonobel (Dulux), Asian (Apex Ultima), Nerolac Kansai (Excel), Ultra Tech Spectrum, Berger
е	Acrylic Exterior Paint	ICI Dulux (Weather Shield MAX), Berger (Weather coat longlife), Nerolac (Excel Anti-Peel formula), Asian (Apex Ultima Weather Proof), Surfacoats (Finesse), Polygel Industries Pvt. Ltd. (Endura)
f	Premium Acrylic Emulsion paints	Dulux ,Nerolac ,Asian Paints, Berger
g	Steel /Wood Primer	Akzonobel (Dulux), Nerolac, Asian Paints, Berger, Jenson & Nicholson
h	Wall putty	Birla Wall Care,, JK White, Saint Gobain, Ferrouscrete
i	Epoxy paints / primer	Kansai Nerolac ,Asian Akzonobel (Dulux) ,FOSROC ,ICI
j	Primer for G.I. surfaces	All types / kinds of Epoxy primer, Etch Primer

Sr No.	Details of Materials	Approved Make / Brand / Manufacturer's Name
24	False Ceiling -Metal /Mineral Fiber/Gypsum /Hygienic Tiles/Calcium silicate	Armstrong , Saint Gobin, Lafarge , Hunter Duglus, Anutone, Super Sil, Hilux, Ramco,
а	False Ceiling – Gypsum	Saint Gobain, Boral Lafarge ,India Gypsum
b	False Ceiling – Metal	Saint Gobain ,Armstrong, Hunter Douglus
С	Gyp Board	Saint Gobain Lafarge Boral
d	Baffle Ceiling	Armstrong ,Durlum, Hunter Douglas
е	Acoustical Tile False ceiling	Armstrong, Lafarge, Himalaya Acoustic
25	Self tapping screws for roof	Corrodex / ITW / Corroshield
26	Stainless Steel	Zindal, INDAL, HINDALCO
27	Aluminium Grill	C/s group, Zindal, INDAL, HINDALCO
28	Light weight concrete blocks	ACC ,siporex ,xtralite ,EBR ,Duro-Ver CLC,Aerocon
29	Floor Hardener	Ironite, Fosroc, Hardonate Latecrete
30	Stainless Steel Railing, Accessories etc in Grade SS 304	Dorma, D-line, Jindal,Ozone ,Geze

## PLUMBING AND SANITARY ITEMS

S. No.	Details of Materials / Equipment	Manufacturer's Name
1.	Vitreous China Sanitary ware	Cera
		Hindware
		Johnson
		Parryware
		Jaquar
	WC Connectors	Prince
		Supreme
2.	Bath Tub and Shower Tray	Aquaplus
		Duravit
		Kaldewei
3.	Stainless Steel Sink	Nirali
		Franky
		Johnson

S. No.	Details of Materials / Equipment	Manufacturer's Name
4.	CP Spreader for Urinal	Ark Jaquare ESS-ESS Hindware
5.	GI Pipes/Fittings	Zenith TATA ITC G.S.T B.S.T
6.	Concealed Cistern	Geberit Roca
7.	CP Fittings	Ess-Ess Jaguar Johnson Cera Perryware
8	Flow Control Devices	Aquaplus Con-Serv Jaquar RST
9	Geyser	Ariston Idotripi Spherehot Venus
10.	Floor Drain Fixture, Rain Water Outlets & Channel Gratings	ACO GMGR Neer
11	Shower Channel / PP – car parking channel	ACO Viega
12.	C.P / S. S Grating for Floor Trap	GMGR Chilly
13.	Cast Iron Pipes & Fittings Manhole covers and frames	

S. No.	Details of Materials / Equipment	Manufacturer's Name			
	a) As per IS:3989 (Pipes & Fittings)	KALPANSH NECO			
	b) As per IS:1729 (Manhole covers and frames)	NECO Raj Iron Foundry Agra			
	c) As per IS:1536 (CIClass LA Pipes)	Electro Steel Calcutta IISCO Kesoram Calcutta			
	d) D.I. Manhole Covers & Frames	Kartar valves & fittings NECO			
	e) CILA fittings	Kartar valves & fittings			
	f) Suspended Manhole and Gully Trap	Patel Pattern			
14.	Drip Seal	Vinod Cement Co. Chandigarh (PJS-43)			
15.	GI / M.S Pipes (IS: 1239 and IS: 3589)	AST pipes Jindal Tata Steel			
16.	GI pipes fittings	Unik Zoloto M			
17	GI pipe sealent	Henkel - LOCTITE 55			
18	Pipe clamp & supports	Chilly Euroclamp			
19.	D. I. Pipes	Electro Steel Jindal Lanco Kalahasthi			
20.	Copper Pipes & Fitting	Flowflex – Rajco IBP – Max flow			
21.	i) UPVC Pipes	Astral / Finolex /Prince /Kissan Astral aquaris / Finolex / Prince /Supreme			
	ii) CPVC Pipe	/ / Finolex, Prince, Supreme, Astral,			

S. No.	Details of Materials / Equipment	Manufacturer's Name
	iii) UPVC ball valve	Ashirvad
		Astral (Spears)
22.	PVC Water Tank	Sintex, Shakti Goa
23.	HDPE Pipe	Duraline Kimplas Reliance
24.	RCC Pipe	K K Pranali Michael and Michael
25.	Stoneware Pipes, Gully Traps	Perfect Potteries, JABALPUR Rajura
26.	SS Pipes	Remi Viega
27.	GM / Forged Brass Valves	Danfoss Idrosfer Jayhiwa Sant Zoloto
28.	Sluice Valves	Indian Valve Company Kirloskar
29.	Butterfly Valve	Audco Danfoss Honeywell Jayhiwa
30.	Check Valve – Wafer Type	Advance Danfoss Kirloskar Jayhiwa
31.	Check Valve – Dual Plate	Advance

S. No.	Details of Materials / Equipment	Manufacturer's Name
32.	Pressure Reducing Valve	Fouress Honeywell RB Zoloto
33.	Solenoid Valve	Avcon Danfoss
34.	Thermostatic valve	Oventrop
35.	Air Release Valve	Fouress Arco OR Zoloto
36	Ball Float Valve	Esseti HBD Zoloto
37	NRV – Ball type – Sewage application	Danfoss Silverspark
38.	Y Strainer	Emerald Zoloto
39.	Hydropneumatic System	Grundfos ITT Industries Wilo – Mather & Platt
40.	Storm Water Drainage Sump Pumps (Submersible)	Grundfos Kirloskar KSB Wilo – Mather & Platt
41.	Sewage Handling Pumps	Grundfos Kirloskar KSB Wilo – Mather & Platt
42.	Transfer Pumps	Grundfos Kirloskar KSB

S. No.	Details of Materials / Equipment	Manufacturer's Name		
		Wilo - Mather & Platt		
43.	Self-Priming Pumps	Johnson Kirloskar		
44.	Drinking Water Cooler	Blue Star Voltas Eureka Forbs		
45.	Borewell Pump	Grundfos KSB		
46.	Mechanical Seal	Burgmann Sealol		
47.	Couplings	Lovejoy		
48.	Anti Vibration Mounting & Flexible Connections	Cori Dunlop Flexionics Kanwal Industrial Corporation Resistoflex		
49.	Pressure Gauge	Emerald Fiebig H Guru		
50.	Water Meter (Mechanical Type)	Actaris Capstan Kaycee Kranti		
51.	Electronic Flow Meter	Krohne (Forbes Marshall) Rockwin		
52.	Level Controller & Indicator (Water)	Auto Pump Cirrus Engineering Technika Techtrol		
53	RPVC /SWR Pipes/Fittings:	Finolex Supreme Prince		

S. No.	Details of Materials / Equipment	Manufacturer's Name
		Kisan
54.	MH / Water Tank Plastic Steps	KGM Patel Pranali Industries
55.	Insulation for Hot Water Pipes	Aflex Armacell – Armaflex Eurobatex – Union Foam K-Flex ST Thermaflex
56	Electric Hot Water Generator	A.O. Smith Emrald Enmax Rapid Control Vinosha
57	Solar Heating	Tata BP Solar The Standard Products Mfg. Solarhart India
58.	Three Way Motorized Valve	Danfoss Honeywell Invensys Johnson Control Sauter Schneider Siemens
59	Grease Trap	ACO Wade
60.	Welding Rods	ADOR Cosmos Esab Super Bond (S)
62.	Fire Sealant	BTMH Engineering Birla 3 M Hilti Promat
64.	STP/WTP	C-Tech Thermax Ion Exchange
65.	Solar panels	Tata BP Solar Jain irrigation

S. No.	Details of Materials / Equipment	Manufacturer's Name
		Solahar
		Viesmann
66	Water coolers /purifyers	Eureka Forbes, Blue star
67	Fire Extinguishers	Safex / Safeguard / Fireguard / Zenith / Eversafe / Firex / Minimax / Kanex
68	Toilets Cubicals	Merino/ Greenlam/Dorma/T -line

## SPORTS FLOORING ITEMS

SR	DESCRIPTION	BRAND NAME	REMARK	Dealer/ Distubutor/ manufacturer NAME
1	INDOOR MULTIPURPOSE	CONNOR USA or Equivalent sports flooring, MFMA certified	IMPORTED Maple Wooden Flooring	Freewill / Ebaco/Great Sports Infra
2	Gymnasium Flooring	Taraflex/ tarkket	IMPORTED Synthetic sports surface	Freewill / Ebaco/Great Sports Infra
3	Table Tennis flooring	Taraflex/ tarkket	IMPORTED Synthetic sports surface	Freewill / Ebaco/Great Sports Infra
4	Squash court	CONNOR USA or Equivalent sports flooring, MFMA certified/ Rebond	IMPORTED Maple Wooden Flooring	Freewill / Ebaco/Great Sports Infra Rebond UK /Courtwall/Connor

## **EQUIPMENTS**

SR	DESCRIPTION	REMARK	Dealer/ Distubutor/
			manufacturer NAME
1	Table Tennis	International Table Tennis Fedration (IITF) aproved	Freewill / Ebaco/Syncotts
2	Squash	21 ft x 7.8 ft squash Court Glass Back wall as per WSF specifications	Freewill / Ebaco/Syncotts

SR	DESCRIPTION	REMARK	Dealer/ Distubutor/
			manufacturer NAME
3	Movable badminton post	Made from 40X40 mm steel square tube with 60kg. of ballast weight	Freewill / Ebaco/Syncotts
4	Billiard Table		Freewill / Ebaco/Syncotts
5	Pool Table		Freewill / Ebaco/Syncotts
6	General Spectator Seating	Model Plaza	Avant (Salin) / Ferco Arc light / Camatic (Matrix Bair)/ Freewill
7	VIP Spectator Seat	Model Alpha Bare	Avant (Salin) / Ferco Arc light / Camatic (Matrix Bair)/Freewill

## BATHROOM FITTINGS:

SR.	ITEM		BRANDS / MAKES				
NO.		ROCA	JAQUAR	ESS ESS	CERA	HINDWARE	BENELAVE
		MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.
(1)	Single lever monoblock basin mixer without pop-up	Victoria RT5A3125C A1	VGP- 81011B	TM140	CS815	F150009	BLSCP4552 1
(2)	Pressmatic/Auto close pillar tap		PRS-031	ATCO1	CG601	F310001	BLACP8010
(3)	Bib Cock (Short body)	Victoria RT5A7825C A1	VGP- 81037	TM102	CS103A	F130002	BLQCP450 11
(4)	Angular Stop Cock	RF5251599 00	VGP- 81053	TM104	CS108A	F130003	BLQCP450 22
(5)	Concealed Stop Cock 20/15 mm	RT5A1525C A1	ALD- 089 + VGP- 81083k	TM106	CS128A	F130005	BLQCP450 34
(6)	Pressmatic /Autoclose Urinal Valve		PRS-073	ATC03	CG111		
(7)	Sink Cock with swivel spout	RT5A7625C 00	VGP- 81173B	TM134	CS120	F250015	
(8)	Two Way Bib Cock		OPL- 15041	TM103	CS106A	F130019	BLQCP450 17

SR.	ITEM		BRANDS /	MAKES			
NO.		ROCA	JAQUAR	ESS ESS	CERA	HINDWARE	BENELAVE
		MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.	MODEL CAT NO.
(9)	Health Faucet	RF9060A1	ALD-573	C232C	CG106	F160002	BLACP5030 2
(10)	Shower Arm	Torrente	SHA-483			F850001	BLACP5011
(11)	Shower Rose	RF18600A1	OHS- 1989			F850004	3
(12)	Waste Coupling Full Threaded		ALD - 705	C230A	CM103	F850001	BLACP7020 2
(13)	Bottle Trap	RF9066A1	ALD- 769L	C231	CM104A	F850004	BLACP7010 1
(14)	Pressmatic/Auto close flush valve		FLV 1093	E251B	CM102	F850022	BLACP7045 8
(15)	Rob hook	Lure RA8160701 56	AKP- 35751P	AC206	CA106	F840008	BLACP1612 3
(16)	Toilet paper Holder	Lure RA8160701 21	AKB- 35791P	AC305	CA105	F840007	BLACP3712
(17)	Soap Dispensor	Lure RA8160701 05	AKP- 35735P				
(18)	Towel rack	Lure RA8160701 68	AKP- 35781P	AC108	CA107	F840010	BLACP1511 5
(19)	Towel ring	Lure RA8160701 72	AKP- 35721P	AC402		F840002	BLACP3711 3
(20)	Soap dish	Lure RA8160701 32	AKP- 35731P	AC203	CA103	F840004	BLACP3711 7
(21)	Tumbler holder	Lure RA8160701 52	AKP- 35741P	AC504	CA104	F840001	BLACP3711 9
(22)	Towel Rail	Lure RA8160701 65	AKP- 35711P	AC601	CA101	F890011	BLACP4111
(23)	Single lever exposed parts of Hi-flow diverter	Victoria RT5258448 A1	FON- 40079K	TN/422D			BLACP7057 1
(24)	Concealed body of Hi-flow diverter	RT5258433 A1	ALD-079	TM132B			BLACP3751 8

SR.	ITEM	BRANDS / MAKES					
NO.		ROCA	JAQUAR	ESS ESS	CERA	HINDWARE	BENELAVE
		MODEL CAT	MODEL	MODEL	MODEL	MODEL CAT	MODEL
		NO.	CAT NO.	CAT NO.	CAT NO.	NO.	CAT NO.
(25)	Pillar cock Elbow Action		FLR-5031	IR18	CQ504		
(26)	Bath tub spout with flange	Estrella RT5A0103C A1	SPJ- 81429	QS13	CQ124		BLQCP461 01

## **SANITARY FITTINGS:-**

SR.	ITEM	BRANDS / MA	AKES					
NO		JAQUAR	PARRYWAR E	CERA	HINDWAR E	GEBERIT	BENELAVE	ROCA
		MODEL CAT	MODEL CAT	MODEL	MODEL	MODEL	MODEL	MODEL
		NO.	NO.	CAT NO.	CAT NO.	CAT NO.	CAT NO.	CAT NO.
(1)	Europe an Wall Hung W.C.	Wall Hung- WC Size (mm) 370 x 360 x 540 CNS-WHT- WS01 Bowl	C0207 Closet	Clair 2033 EWC wall HungP 535 x 380 x 400 mm	Studio 20061 L=52 cm	-	ALWIN BLSW2001 0 SW 535 x 362 x 372 mm	Giralda RS346467 460
(2)	Soft close seat cover	CNS-WHT- WCS2 Soft Closing Seat Cover	C8300 Seat Cover	2325B	Seat Cover	-	X 3/2 IIIIII	Giralda RA80P467 001
(3)	Conceal ed cistern 80 mm	CIB-WHT- 31801011X	-	-	-	Geberit Alpha 109.010.0 0.1	BLCPN310 01	Slendra RA890031 410
(4)	Push Plate round knob (chrom)	CIS-CHR- 31185210X	-	-	-	-	BLCPN320 02	Slendra RA890045 0B1
(5)	Under Counte r Wash Basin (Oval)	CNS-WHT- WB03 Under Counter Basin Oval Size (mm) 195 x 600 x	Small Oval Basin C0419 500 x 400 (White)	Oval 1005 Wash Basin 560 x 400 Snow white	ZEN 10049 560 x 450 Star White	-	ABREO BLSW1002 3 SW 490 x 410 x 200 mm	Neo Selene RS322307 460

		425						
(6)	Flat Back Urinal ( option I)		-	-	-	-	-	-
(7)	Flat Back Urinal ( option II)	URS-WHT- 0702 Urinal Size (mm) 625 x 375 x 315	New Magnum C0575 +E8095 spreader	5001 UrinL Flat back large 420 X 395 X 635 mm Snow white	Flatback large 60002 (star white) 59 x 39 x 37.5	-	AISTON Flat Back Large BLSW6000 2 SW 365x400x 600mm	-

#### Note:

As regards to CP fittings and sanitary fittings items mentioned above, bidders to note that selection of any particular approve make/ model from the List of Approved makes furnished above shall be decided by the Engineer/Employer and bidders shall therefore quote accordingly.

As regards to painting items, bidders to note that selection of any particular colour/shade from the List of Approved manufacturers decided by the Engineer/Employer shall be strictly adhered to.

## LIST OF APPROVED MAKES (ELECTRICAL ITEM)

ELEC	ELECTRICAL				
Sr. No.	Items	Makes (ISI marked)			
1	PVC pipes and accessories	Precision / Avonplast / AKG / Modi / Polycab/grandlay			
2	Copper multi-strand wires	Polycab / Finolex / Gloster / L&T / KEI / Skytone / Rallison / Indo Asian / HPL / Terexel / RR / Great White/ Vishal/havells/Anchor			
3	Switches / Sockets / TV, Telephone Socket, etc. (modular)- Cat A	Clipsal / Anchor ( Wood ) / Legrand ( Mylinc ) / MK (Wrapround) / Crabtree (Anthena) / Indoasian (hausmann) / Leon (Delux)			
4	Switches / Sockets / TV,Telephone Socket, etc. (modular)- Cat B	Anchor ( Roma ) / Legrand ( Mylinc ) /Leon (Elegant)			
5	MCB / ELCB / RCCB / ISOLATORS / MCCB /DISTRIBUTION BOARDS	CAT A: Legrand / Hager / L & T / Siemens / ABB  CAT B: Standard / Indo Asian (Gold Plus) / Group  Schneider / Merlin Gerin / HPL (Mooler) / C & S			

6	SFU / Fuse Switch Unit	Schneider / Siemens / L & T / Crompton / GE / Indoasian / HPL/ Cuttler Hammer / C & S / Merlin Gerin			
7	Outdoor Boxes	Clipsal / Henzel / Hunter / Sintex / National			
8	HRC Fuses	Schneider / GE / L & T / Siemens / HPL / ABB / Indoasian / C & S			
9	Industrial Sockets	Clipsal / Legrand / Crompton / Cuttler Hammer / C & S			
10	Fan Regulator	To match with the switch / sockets			
11	UG Cables	Polycab / Asian / Gloster / Gemscab / Universal / CCI / NICCO / Finolex / KEI / Terexel/ Indo asian / Vishal			
12	Cable Glands	Dowels / Bracco / Siemens / Comet / Jainson			
13	Cable Jointing	Raychem / CCI – Xycon / Cabseal / M Seal			
14	Ceiling fans	Crompton / Bajaj / Anchor / Orient / Usha / Khaitan			
15	Exhaust / Pedestal Fan	Crompton / Bajaj / Anchor / Orient / Usha / Almonard / Khaitan			
16	Fixture Conventional	Philips / Crompton / Bajaj / Wipro /Ligman / Keselac Schreder (as specified in BOQ)			
17	Fixture LED	Philips Indal / Hadco / Lumec / Lighting Science / Bajaj Designo / Ligman / Keselac Schreder (as specified in BOQ)			
18	Telephone Wire / Cables	Finolex / Tata (Lucent) / ITL / Skytone / Gemscab / Delton / National / L&T / Polycab			
19	Cable Tray & Race Ways (Factory Fabricated)	Slattco / Globe / Rico Steel / Indiana / Sadhana / Legrand			
20	Network cable	Digisol / Schneider / Avaya/ Systemax / Dlink			
21	Transformer	Crompton / Kirloskar / Voltamp / Bharat Bijlee / KTL / ABB / Urja( Upto 500KVA only )			
22	DG Set (Assembled by authorized OEA / OEM)	Engine – Cummins / Perkins / Catterpillar / KOEL /MTU /Greaves cotton /Leyland / Mahindra Navistar / Doosan Alternator – Stamford / Jyothi / Crompton Greaves / KEC / Leroy Somer - Trident			
23	Capacitor	Siemens / Asian / Khatau Junkar / L & T /ABB / Universal/Legrand			
24	ACB	Siemens / L & T / GE / ABB / Sneider/ C & S / Legrand			
25	VCB / HT Switch with cubicle / SF6	Siemens / ABB / Crompton / Areva / L&T /Megavin			
26	CT's / PT's	AE / Indcoil / Kappa / Ricco / Pragati / Megavin			
27	APFC Relay	L & T / GEC / Emercon / Alstom			
28	Contactor / Timer / Starter	L & T / Cuttler Hammer / Sneider / Siemens / HPL – Mollar /C & S/Legrand			
29	Trivector Meter / Energy Meter	AE / Rishab / C & S / Tecnic / Siemens / Sneider / L & T / Indoasian			
30	EPABX	Avaya / NEC / Tata Aria / Siemens / Alcatel			
31	Telephone Instrument	BPL / Tata / Siemens /Avaya / NEC/Panasonic			

32	Ammeter / Voltmeter / Powerfactor meter / Frequency meter	AE / Rishab / IMP / Meco / ABB / HPL
33	Lightning Pro. System	Synergy / Indelec / Stormaster(LPI)
34	HT / LT panels	Kris Controls / Electcontrol / PES / Vivid / Control Centre / Imperial / Kenson Engineers / Peaton Electrical / sun control/ DB electricals Pvt ltd,in addition any panel manufacturer having CPRI approval for similar panels
35	GI pipes	Zenith / Tata / Jindal
36	Rotary Switch / Selector Switch	Siemens / L & T / GE / Kaycee
37	Telephone Tag Box	ITL
38	UPS / Inverter	Dubas / Power Ware / Aplab / Emerson / APC / Streamline / Numeric/Renutron/Socomec
39	Batteries	Exide / Amaron / Panasonic / Tata/Amaraja
40	RMU with Cubicle	Siemens / Sneider / ABB / Crompton greeves / L&T
41	Changeover Switch	HPL / Indo Asian./ C& S
42	Voltage Stabilizer	Oricon / V- Guard / Everest/Servel
43	GI Poles	Bajaj / Aster / KL Industries / Valmont
44	Compact substation	Pai Kane/Shivam Combines/Suncontrols/Cahors

CCT	CCTV & NET				
Sr.	ITEM	APPROVED BRANDS			
No					
1	Wireless Access Point	Dlink / Cisco / HP Procurve / Siemens / Digisol/motorola			
2	Cat - 6 UTP Cable	Digisol/Dlink / AMP / Schneider / Systimax			
3	3+1 CCTV cable	Polycab/Finolex/Digisol / Schneider / Avaya/ Systemax / Dlink			
4	24 port layer 2 POE Switch	Sony / Bosch / Dlink / DigiSol/cisco/HP procurve			
5	Storage box	Sony / Bosch / Dlink / DigiSol			
6	IP based camera	SONY / BOSCH / DLINK /			
U	ir baseu camera	DIGISOL/CPPLUS/HONEYWELL/PANASONIC/SAMSUNG			
7	EPABX	Alcatel/ Siemens / Avaya / NEC /LG Aria			
8	Operator console	to match with EPBAX			
9	Digital Phone	to match with EPBAX			
10	Analog Phones	to match with EPBAX			
11	LED/LCD Projector	EPSON / LG /SANYO / PANASONIC /NEC /TOSHIBA/			
	LED/LED Frojector	HITACHI/Casio			
12	HD Video Conferencing Setup	POLYCOM / TANDBERG			
13	Plasma TV/ Monitor	Sony / Panasonic / LG / Samsung / Philips			
14	cinema projector	Christie/Barco			
15	Electronic Ceiling lift	Draper ,Dalite , Chief			
16	Motorized Projector Screen	Draper ,Dalite , Chief,focus			

17	Table Top Microphone	AKG/Shure/revolabs/sennheiser
18	Wireless Lapel Mic.	AKG/Shure/revolabs/sennheiser
19	Wireless Hand held mic	AKG/Shure/revolabs/sennheiser
20	AEC Signal Processor	BSS / Nion / Yamaha / Shure/Biamp
21	Two zone Amplifier	Crown / Yamaha / QSC
22	Ceiling Speakers	Bosch /JBL /Tannoy /Yamaha /electrovoice/martin audio
23	In Wall Speakers	Bosch /JBL /Tannoy /Yamaha /electrovoice/martin audio
24	PRI Module for VC	to match with video conferancing equipments
25	DVD recorder	Sony / Panasonic / LG / Samsung / Philips
26	Surface Access Enclosure	Extron , Crestron, AMX
27	Architectural Adapter Plates	Extron , Crestron, AMX
28	Video and RGB Scalar with Audio	Extron , Crestron, AMX
29	Matrix Switchers for RGB and Stereo Audio	Extron , Crestron, AMX
30	Lighting Automation Processor and Power Supply	Crestron , Dynalite ,AMX
31	Fluorescent Dimmer	Crestron , Dynalite
32	Wireless Access Point	DLINK /CISCO / Digisol
33	Touchpanel Media Centre	Crestron , Dynalite
34	Relay Module	MILESTONE / Creston
35	VGA Cable	EXTRON / KRAMER
36	Composite Video cable	EXTRON / KRAMER
37	S-video cable	EXTRON / KRAMER
38	Speaker Cable	EXTRON / KRAMER
39	Serial Control/Audio Cables	EXTRON / KRAMER
40	VGA, RCA, Audio, XLR, etc connectors,	Reputed Make
41	Equipment Rack	Valrack / Knurr / APC/spider
42	TV	Sony / Panasonic / LG / Samsung / Philips
43	DVD players	Sony / Panasonic / LG / Samsung / Philips

	Medical Gas system					
Sr. No.	Item	Make 1	Make 2	Make 3	Make 4	Make 5
1	6000 liter VIE liquid oxygen storage tank complete	Inox	VRV	Chart		
2	Liquid oxygen vaporiser complete	IWI cryogenics	Delair	Chart		
3	Oxygen gas manifold for cylinders & fitments	GE Proj	Penlon	Beacon Medaes		

	complete					
4	Seamless steel medical oxygen gas cylinders complete	Maruti Koatsu	Everest Kanto	вос		
5	Medical oxygen Automatic manifold changeover control panel complete	Greggerson (Drager)	Penlon	Pneumatic Berlin	Beacon Medaes	
6	132 CFM 8 bar reciprocating medical air compressor complete	Beacon Medaes	Ingersol Rand	Anest Iwata	Atlas Copco	
7	2000 L medical air 8 bar receiver complete	Beacon Medaes	Ingersol Rand	Atlas Copco		
8	Medical air dessicant dryer complete	GEM Equipments	Delair	Beacon Medaes		
9	Medical air treatment system complete	Dominique Hunter	Boge	Beacon Medaes		
10	Medical air manifold for cylinders & fitments complete	GE Proj	Penlon	Beacon Medaes	Penlon	
11	Seamless steel medical air gas cylinders complete	Maruti Koatsu	Everest Kanto	вос		
12	Medical air automatic manifold changeover control panel complete	Greggerson (Drager)	Penlon	Pneumatic Berlin	Beacon Medeas	
13	173 CFM vacuum, rotary vane oil less vacuum pump set complete	Becker	Anest Iwata	Wintek corporation	Bush	Amico
14	4000 L medical vacuum receiver complete	Beacon medeas	Ingersol Rand	Technology Medicale	Atlas Copco	France
15	Bacterial trap	Dominique Hunter	Parker			
16	Nitrous oxide gas manifold for cylinders & fitments complete	вос	GE Proj	Beacon Medeas	Penlon	
17	Seamless steel medical Nitrous oxide gas cylinders complete	Maruti Koatsu	Everest Kanto	вос		
18	Medical oxygen Automatic manifold changeover control panel complete	Greggerson (Drager)	Penlon	Pneumatic Berlin	Beacon Medeas	
19	Medical gas outlets					
20	Medical Oxygen complete	Greggerson (Drager)	Penlon	Pneumatic Berlin	Beacon Medeas	

21	Medical Air complete	Greggerson	Penlon	Pneumatic	Beacon	
	Madical vacuum complete	(Drager)		Berlin	Medeas	
22	Medical vacuum complete for theatre	Greggerson	Penlon	Pneumatic Berlin	Beacon Medeas	
		(Drager)				
23	Medical vacuum complete	Greggerson	Penlon	Pneumatic	Beacon	
	for ward	(Drager)		Berlin	Medeas	
24	N20 outlets	Greggerson	Penlon	Pneumatic	Beacon	
		(Drager)		Berlin	Medeas	
25	Bed head panel	Greggerson	Penlon	Pneumatic	Beacon	
	Dea nead pane.	(Drager)		Berlin	Medeas	
	Gas distribution copper	Max		Janice		
26	piping complete with all	Flow/Metal	Alcobes	Extrusions	Raj Co	
	fittings	Gem		LXttusions		
			IBP	IMI		
27	Copper piping fittings.	Flow flex	Conex	onex Yorkshire	ABC	
			UK	TOTKSTITE		
20	MACD queto re	Greggerson	Donlan	Duovoin	Beacon	
28	WAGD system	(Drager)	Penlon	Praxair	Medeas	
20	Valve boxes with isolation	Greggerson	D. d.	N 45 C	Beacon	
29	valve & gauge	(Drager)	Penlon	MEC	Medeas	
		Greggerson		Pneumatic	Beacon	_,
30	Alarm system	(Drager)	Penlon	Berlin	Medeas	Therapy
		Greggerson			Beacon	
31	Oxygen flow meters	(Drager)	Penlon	MEC	Medeas	
					Beacon	
32	Bed head units	Penlon	Precision	Therapy	Medeas	
		MDD	MediOtiz	Mediconz	MGI	
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BMS	BMS				
Sr. No	Item Description	MAKE			
1	BMS Workstation PC	IBM/HP/COMPAQ/LENOVO/DELL			
2	A3 size Deskjet printer	HP/CANON/EPSON			
3	Central Control Station- Hardware Communication Unit for interface between DDC Controller and Man Machine Interface	L&T/Schneider/Carrier/Honeywell			
4	Central Control Station consisting of followings Colour Graphics BMS Software Operating on Windows platform	L&T/Schneider/Carrier/Honeywell			

5	STATION CONTROLLERS with Panels, DDC Modules, Input or Output Relays, Transducers, Terminal Block, Real Time Clock, Peer-to-Peer Communication Capability. The rate to include supply, testing, installation & commissioning of the the controllers. 25% Spare I/O points shall be provided in each controller	L&T/Schneider/Carrier/Honeywell
6	Central Control Station consisting of Hand - Held terminal	L&T/Schneider/Carrier/Honeywell
7.1	Differential Pressure Switch across filter for AHU	L&T/Schneider/Carrier/Honeywel/ABB/ Switzer
7.2	Duct type Temperature Sensor for AHU	L&T/Schneider/Carrier/Honeywell
7.3	Mixed Gas (Air Quality) Sensors for AHU	L&T/Schneider/Carrier/Honeywell
7.4	Differential Pressure Switch across secondary water flow	L&T/Schneider/Carrier/Honeywell/ABB/ Switzer
7.5	Immersion Type Temperature Sensors (RTD Type)	L&T/Schneider/Carrier/Honeywell
7.6	Ambient Tempeature measurement sensor	L&T/Schneider/Carrier/Honeywell
7.7	Variable Frequency Drives on Secondary pumps	L&T/Schneider/Honeywell/ABB/ Grundfos/Rockwell/Danfoss
7.8	Water Flow switch	L&T/Schneider/Carrier/Honeywell/ Johnson controls/Yokogowa/Emerson
8.1	2 core 1.5 sq.mm Stranded, twisted, Shielded, steel braided Copper Cable	Polycab/Finolex/Incab/CCI/ Nicco/Gloster
8.2	unarmoured Data cable for RS 485 connectivity through GI conduits ( The Rate Shall include GI conduit )	Digisol / Schneider / Avaya/ Systemec / Finolex / Legrand
9	hot dip galvanized Cable Tray	Slattco / Globe / Rico Steel / Indiana / Sadhana / Legrand

SPEC	SPECIALITY OT					
Sr. No	Makes	Source	Make 1	Make 2	Make 3	Make 4
1	Wall and Ceilling Panelling of Composite Mineral	Imported EU-UK-US	Corian	Montely	Betacryl	
1.1	Adhesive for Jointless surface	Imported EU-UK-US	Corian	Montely	Betacryl	

2	Anti Static Flooring					
2.a	Anti Static OT Flooring	Imported EU-UK-US	Tarkett(UK)	Gerflor(France)	Forbo ( Germany)	Armstrong
2.b	Anti Static Scrub and Store Flooring	Imported EU-UK-US	Tarkett(UK)	Gerflor(France)	Forbo ( Germany )	
2.c	Conductive Adhesive	Indigenous/Imported	Tarkett(US)	Gerflor(France)	Forbo ( Germany )	Aerobond
3	Surgeon Panel - Control	Imported EU-UK-US	TRILUX	Bender	Tedisel	ALVO
4	2- Plate X Ray Viewing	Indigenous/Imported	MDD	MediOtiz	Mediconz	MGI
5	Cascade Pressure Stabilizer - PRD	Indigenous/Imported	MDD	MediOtiz	Mediconz	MGI
6	Storage unit	Imported EU-UK-US	Corian	Montely	Betacryl	Trespa
7	Media Bridge ( Medical Supply Unit - System )	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.1	Gas & other outlet	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.2	Oxygen	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.3	N20	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.4	Med air 4	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.5	Surgical air 7	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.6	Vacuum	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.7	AGSS	Imported EU-UK-US	Trilux	Penlon	Drager	Beacon Medaes
7.8	Switch socket	Imported EU-UK-US	legrand	clipsal	Roma	Crabtree
7.9	Data socket	Imported EU-UK-US	legrand	clipsal	Roma	Crabtree
7.1	Telephone	Imported EU-UK-US	legrand	clipsal	Roma	Crabtree
7.11	AV port	Imported EU-UK-US	legrand	clipsal	Roma	Crabtree
8	LED OT					

	LIGHT with					
8.a	HD Camera OT light Triple Dome - HD Camera	Imported EU-UK-US	TRILUX	Maqque / Mach	Drager	Steries
8.b	OT light Twin Dome - HD Camera	Imported EU-UK-US	TRILUX	Maqque / Mach	Drager	Steries
9	Clean room RGB light	Indigenous/Imported	TRILUX	Zumtobel	Kutzon	Equivalent
10	Laminar Flow plenum 3Mx3M	Imported EU-UK-US	Vokes Air	Weiss / Klima Op	CTA GmbH	ALKO GmbH
11	Hermetically Sealed door	Imported EU-UK-US	Metaflex	Wall Door	PORTALAB	Markus
12	Automation for Hermetically sealed door	Imported EU-UK-US	Metaflex	Wall Door	PORTALAB	Markus
12.a	Radar hand switch	Indigenous/Imported	Metaflex	Wall Door	PORTALAB	Equivalent
12.b	Foot Switch	Indigenous/Imported	Metaflex	Wall Door	PORTALAB	Equivalent
13	Writing Board	Indigenous	MDD	MediOtiz	Mediconz	MGI
14	Clean room luminaires	Imported EU-UK-US	TRILUX	Zumtobel	Kutzon	Guth
15	2 - Bay Scrub Sink	Indigenous	MDD	MediOtiz	Mediconz	MGI
16	Electrical Conduiting and Wiring					
16a	Internal OT conduiting	Indigenous/Imported	Precision	kundan	finolex	Equivalent
16.b	Internal OT wiring	Indigenous/Imported	Polycab	finolex	kundan	Anchor
17	Isolation Transformer and Electrical	Imported	Tedisal	Bender	Schnider	ALVO
18	HVAC- Ducting Inside OT's					
18.a	Aluminum	Indigenous	Jindal	HINDAALCO	Manaksia	

	Ducting					
18.b	Return air grill	Indigenous	Jindal	HINDALCO	Ajanta	
18.c	Insulation for Supply Air 19 mm, Return Air Riser 13mm	Indigenous	k-Flex	superlon	A- flex	
19	Medical Gas Pipe Line Inside OT					
19.a	Medical Gas Pipeline Inside OT	Indigenous/Imported	Mehta tubes	Rajco Metal	Precision	METALGEM
19.b	Medical gas Pipe Fittings	Imported	IBO KONEX	MEX FLOW	Precision	P3UK
20	Pass Box ( Dirty and Clean Utility )	Indigenous	ACE	MediOtiz	Mediconz	CRP
21	Stainless steel 304 Double Door	Indigenous	Shakti Metador	SFPL	ACE	Equivalent
22	Stainless steel 304 Single Door	Indigenous	Shakti Metador	SFPL	ACE	Equivalent

HVA	HVAC System				
Sr. No.	Details of Materials / Equipment	Manufacturer's Name			
1	Variable Refrigerant Flow System	Daikin / Mitsubishi / Toshiba / Samsung /Voltas-Midea / Bluestar Gree			
2	Chillers Screw type Air/water Cooled	Voltas / York / Kirloskar / Daikin McQuay/Blue Star/ Carrier/ Dunham-Bush/ Trane.			
3	Air Cooled Condensing Unit	Blue Star / Carrier / Voltas / Daikin / Mitsubishi			
4	Air Handling Unit	Nuetech/Blue Star / Carryaire / HPS / Voltas / Zeco / Citizen			
4	Fans: Axial / Centrifugal / Propeller Fans / Roof extractors	Oesterberg / Comfrei / Nikotra / Kruger			
5	GI Sheets	TATA / Jindal			
6	Grills / Diffuser	Air Master / Air Products / Carryaire / Airmech /			

		Dynacraft / Cosmos /Ravistar
7	Swirl Diffuser & Jet Nozzles	Air Master / Air Products / Carryaire / Airmech / Dynacraft
8	Fire Damper	Carryaire / Ravistar / George Rao / Dynacraft / Cosmos
9	Volume Control Damper	Air Master / Carryaire / George Rao / HPS / Airmech
10	Damper Actuator	Siemens / Honeywell
11	Anchor Fasteners	Fischer / Hilti
12	Filters	Airtech / Dyna / Pyramid
13	Insulation	
а	Fiberglass (Foil Faced)/ Resin bonded glasswool	Owens Corning / Kimco / UP TWIGA
b	EPS	Breadsell / Modifoam / Cooline
С	Nitrile Rubber	Armaflex / Vidoflex / Eurobatex/ Kflex
d	Protective Coating over Closed Cell Elastomeric - Fiberglass Woven Cloth	UP TWIGA / Lloyds / Owens
е	UP Protection over Nitrile Rubber	Amicol / Polybond
f	Fire Sealants	Birla 3M / Hilti / Promat India
14	Controls: Dial Thermometer Capillary Type	H Guru / Teddington / Flebig
15	Vibration Isolator	Flexionics (USA) / Kanwal / Resistoflex
16	Self Adhesive Sealing Gasket for Ducts	Aeroflex / Equi
17	Sound Attenuators	Carryaire / Trox
18	Flexible Duct Connector	Mapro / Resistoflex
19	Heavy Duty Pipe Support Clamps	Hira Arosio
20	Copper Pipes / Fittings	Mandev Tubes / Shrishyam / Rajco
21	Strainers	Jaypee / Grandprix / Leader/ Emerald/ Trishul
22	Thermostats, Solenoid Valves and Switches	Danfoss/ Honeywell / Johnson / Siemens / Bell controls
23	Valves : Ball Valves, Balancing Valves, Butterfly, Non Return Valve	Audco / Leader/ Rapidflow / Advance/ Kirloskar/ Zoloto
24	Valves: 2 way / 3way/ On-Off Modulating Valve Motorized	Danfoss/ Honeywell / Johnson / Siemens / Bell controls / Anergy
25	Variable Frequency Drives	ABB / Siemens / Danfoss / Schneider
26	Cooling Tower	Mihir / Paharpur
27	AC Controllers/ BMS	Honeywell / Landis & Staefa / Bell Controls/ Sauter / Siemens
28	Air Separator	A.C. Accessories./ K.D. Agencies/ Armstrong.

29	Flow Meter	Forbes Marshall / Krone / Danfoss/ E & H/ Eureka		
30	Flow Switch	Procicon / Switzer / Danfoss		
31	Fan Coil Units	Voltas / Bluestar / Caryaire / Carrier / Media/Sinco		
32	Pipes and fittings: MS, ERW, GI	Zenith/ Jindal/ TATA		
33	Pressure Differential switches	Honeywell/ Johnson/ Siemens/ Switzer		
34	Pressure Gauge (Bourdon type)	Fiebig / H-Guru /Dwyer/ FGB		
35	Motors and Pumps (End Suction Pumps)	Kirloskar Brothers / KSB / Mather & Platt / Grundfos/ ABB/ Siemens / CG		

HVAC Chiller system			
Sr. No.	Items	Makes (ISI marked)	
1	AC Controllers	Honeywell / Landis & Staefa / Bell Controls/ Sauter	
2	Air Handling Units	Nuetech / Voltas / Caryaire/Citizen/HPS/Zeco/ bluestar	
3	Air Separator	A.C. Accessories./ K.D. Agencies/ Armstrong.	
4	Chillers Screw type Air/water Cooled	Voltas / York / Kirloskar / Daikin McQuay/Blue Star/ Carrier/ Dunham-Bush/ Trane.	
5	Dampers : Fire	Dynacraft / Cosmos / Caryaire /Ravistar/ George Rao	
6	Fan Coil Units	Voltas / Bluestar / Caryaire / Carrier / Media/Sinco	
7	Fans : Axial / Centrifugal / Propeller Fans	Kruger/GEC/ NADI / Nikotra/ Nuaire/Oestberg	
8	Flow Meter	Forbes Marshall / Krone / Danfoss/ E & H/ Eureka	
9	Flow Switch	Procicon / Switzer / Danfoss	
10	GI Sheets	Jindal / TATA/ Nippon	
11	Grilles / Diffusers	Cosmos / Dynacraft /Airmaster/ Air Product/ Ravistar	
12	Insulation : Elastomeric Nitrile Rubber foamed tubes	Armaflex	
13	Insulation : Resin bonded glasswool	UP Twiga/ Kimmco/ Owens Corning	
14	Insulation : Expanded polysterene	Beardshell/ Modifoam.	
15	Insulation : Duct Thermal Insulation	Armflex/ Eurobatex/ Kflex/ Vidoflex	
16	Insulation : PUF	Proffessional/ Lloyd	
17	Pipes and fittings: MS, ERW, GI	Zenith/ Jindal/ TATA/HSL/Kalinga	
18	Pressure Differential switches	Honeywell/ Johnson/ Siemens/ Switzer	
19	Pressure Gauge (Bourdon type)	Fiebig / H-Guru /Dwyer/ FGB	

20	Motors and Pumps (End Suction Pumps)	Kirloskar Brothers / KSB / Mather & Platt / Grundfos/ ABB/ Siemens / CG	
21	Roof Extractors	GEC / NADI / Kruger / Nicotra	
22	Strainers	Jaypee / Grandprix / Leader/ Emerald/ Trishul	
23	Thermostats, Solenoid Valves and Switches	Danfoss/ Honeywell / Johnson / Siemens / Bell controls	
24	Valves : Ball Valves, Balancing Valves, Butterfly, Non Return Valve	Audco / Leader/ Rapidflow / Advance/ Kirloskar/ Zoloto	
25	Valves: 2 way / 3way/ On-Off Modulating Valve Motorized	Danfoss/ Honeywell / Johnson / Siemens / Bell controls / Anergy	
26	Variable Frequency Drives	ABB / Siemens / Danfoss / Schneider	
27	Cooling Tower	Mihir / Paharpur	

Fire Alarm and Fire Fighting			
Sr.No.	Items	Makes (ISI marked)	
1	Fire Pumps	KBL / M&P / Grundfos / Crompton / ITT / Becon Weir	
2	Diesel Engine	Kirloskar Oil Engines Limited / Greaves Cotton / Ashok Leyland / M&P / Cummins	
3	G.I. / M.S. Pipes	Jindal / Tata / Zenith	
4	Pipe Fittings	R Brand / Unique / Zolotto	
5	Valves	Zolotto / Audco / Leader / Intervalve / C&R / Castle / Danfoss / H Sarkar / Kartar/ KBL	
6	M. S. Flanges	Hawa / Unique / R Brand	
7	Foot Valve with Strainer	Kirloskar / Arko / Telflow / Grandprix / H Sarker / Leade / Audco	
8	Strainers	Arko / Telflow / Grandprix / H Sarker / Greaves	
9	Flow Meter	Forbes / Marshall / Eureka	
10	Pressure Switch	System Sensor / Indfoss / Danfoss / IFM / Switzer	
11	Pressure Gauge	H Guru / Fiebig / Pricol / Bells	
12	Anticorrosive Material	IWL / Rustech / IPL / Pypkote	
13	Hydrant Valves	Winco / Shah Bhogilal / Newage / Safeguard / Nitin / Minimax	
14	Branch Pipe with Nozzle	Winco / Shah Bhogilal / Newage / Safeguard/ Minimax/ Essel	
15	Fire Hoses	Dunlop / Safeguard / Rubber Hose / CRC / Newage / Nitin / Minimax	
16	Hose Couplings	Shah Bhogilal / Newage / Minimax	

17	Hose Reel	Safex / Newage / Minimax / Safeguard / Fyreguard / Eversafe / Nitin	
18	Hose Boxes	Fyreguard / Safeguard / Newage / Eversafe / Minimax / Nitin	
19	Fire Extinguishers	Safex / Safeguard / Fireguard / Zenith / Firex / Minimax / Kanex (Confirming to ISI)	
20	Sprinklers	Tyco / Viking / Monsher / HD / Spray Safe / Reliable / Automatic Sprinkler USA	
21	Sprinkler Alar Valve	Tyco / Viking / Monsher / HD / Spray Safe / Reliable / Fire Protect Co.	
22	Flow Switch	Potter / System Sensor / Levcon / Switzer / Honeywell	
23	Paints	Asian / Berger / J&N / Jotun	
24	Air Release Valve	Shah Bhogilal / Hawa	
25	Welding Electrodes	ESAB / ADVANI	
26	Rossette Plates	Maths / HD Fire / Tyco	
27	Rubber Gaskets	Champion / Sona / Steelman	
28	Hanger Supports	Hitech / Chilley	
29	Anchor Fastner	Shakti / Hilti	
30	Siemess Connection	Newage / Shah Bhogilal / Minimax	
31	Electric Motor	KEC / CG / ABB / Siemens	
32	LED Indication Lamps	Binay / Vaishno / Teknic/ Schneider	
33	Terminal Blocks	ELMEX / WAGO	
34	Overload Relay	L&T / Siemens / Schneider	
35	Single Phase Preventors	Minilec /AE	
36	Engine Control Selector	SALZER / KAYCEE / L&T	
37	Battery Charging Selector	SALZER / L&T / KAYCEE	
38	Battery Charger	KAYBEE / CHABBI	
39	SIREN / Hooter	Kheraj / Electronic Device / Proton	
40	Smoke / Heat / Beam/ LPG / Duct / High Sensitivity Detectors	Morley / Honeywell / Edwards / Notifier / Simplex / Apollo / GST / Bosch	
41	Fire Alarm Control Panel / Repeater Panel	Morley / Honeywell / Edwards / GST / Apollo / Notifier / Siemens / Simplex / System Sensor/ Bosch	
42	Hooters / Sounder / Fault Isolators	Morley / Honeywell / Edwards/ Siemens / Apollo / GST / Notifier / System Sensor / Bosch	
43	Manual Call Points / Response Indicator	Morley / Honeywell / Edwards / GST / Notifier / System Sensor / Apollo / Bosch	
44	Addressable Modules	Morley / Honeywell / Edwards / GST	
<u> </u>		Pune Techtrol / Johnson controls	
45	Level switch for water tank	Pune Techtrol / Johnson controls	

	coating	
47	Pressurization fans	Nutech/ System Air/ United air
48	Screened cable	Udey / Kei / Delton / Finolex

## LIST OF APPROVED MAKES/BRANDS AND MANUFACTURER FOR LIFT /ELEVATOR SCOPE OF WORKS

Sr. No.	Items	Makes (ISI marked)	
1	Lifts / Elevators	OTIS / Schindler / Mitsubishi / Kone / Thyssenkrupp	
Othe	rs		
4	Solar Street Lights	Gajanan / SAFETEK / Honeywell	
5	Vacuum cleaners	Eureka firbes/black and decker/panasonic	
7	Water Coolers	Blue Star / Zero B / Eureka	
8	Purifiers	Orange / Aquabreez / Zero B / KENT / Blue Star / Eureka /	
		Aquaguard	
9	Solar Panels	Honeywell / Tata BP / Solar	
10	Mortuary chamber	Bluestar, Weber, Spencer	

## LIST OF APPROVED MAKES/BRANDS AND MANUFACTURER FOR LANDSCAPING /HORTICULTURE ITEMS

SR.NO	TRADE NAME	CHEMICAL NAME	MANUFACTURER
1.	Samarth - 10: 20: 20	Complex fertiliser	Zuari Industries, IFFCO, Godrej,RCF
2.	Urea	Straight fertiliser	Zuari Industries, IFFCO, Godrej,RCF
3.	Neem cake	Soil Ammendment	Zuari Industries, IFFCO, Godrej,RCF
4.	MOP - Murrete of Pottash	Straight fertiliser	Zuari Industries, IFFCO, Godrej,RCF
5.	Micronuitrient + mix -	Soil Ammendment	Godrej Agrovet, Zuari Industries, RcF, Stannes
6.	Imidachloprid, Confidor	Pesticide	Godrej, Zuari Industries, Bayer
7.	Bavistin	Fungicide	BASF,Godrej, Zuari Ind.,Hyderabad Chemicals

SR.NO	TRADE NAME	CHEMICAL NAME	MANUFACTURER
8.	Copper oxy chloride	Pesticide	Zuari Industries, Godrej, Syngenta, Fytolan
9.	Organic Manure	Pesticide	Godrej,M. Stannes, Bagirath, Somaya, Godavari
10.	Chloropyrifos - 20% EC	Pesticide	Dow Agro chemicals (Dursban), Zuari Ind.,Godrej, Gharda
11.	Monocrotophos - 50%	Pesticide	Godrej,Zuari Ind.,Hyderabad Chemicals
12.	Sevin powder	Pesticide	Bayer, Godrej, Zuari Ind.,
13.	Well decayed farmyard manure	Manure	Locally available with dairy farmers
14.	Chemicals for weed control		
15.	Paraquet dischloride 24 wsc gramoxore	weedicide	Zuari Ind., Devidayal, Syngenta, Godrej
16.	Glyphoshate -41 % SL	weedicide	Zuari Ind., Devidayal, Syngenta, Godrej