

# **SOUTH ASIAN UNIVERSITY**

Akbar Bhawan, Chanakyapuri, New Delhi



## **Tender Document**

### **CONSTRUCTION OF BOUNDARY WALL IN REMAINING PORTION OF THE SOUTH ASIAN UNIVERSITY(SAU) CAMPUS, MAIDANGARHI, NEW DELHI 110068.(Package-1A)**



#### **Section - I**

Notice Inviting e- Tenders

#### **Section- II**

Form of Agreement, General Rules and Directions  
for Guidance of Tenderers/Bidders

#### **Section- III**

Special Condition, Technical Specification

#### **Section - IV**

Schedule of Drawings

#### **Section - V**

Schedule of Quantities

**September, 2020**

**NOTICE INVITING TENDER (NIT)**

N.I.T.No.30/NIT/SAU/2020

**Name of work:** Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at MaidanGarhi, New Delhi 110068. (Package-I A).

Estimated Cost put to tender: **Rs.2,54,98,794/-**

<b>Earnest Money</b>	<b>Rs 5,10,000/-</b>
<b>Performance Guarantee</b>	<b>5% of tendered value.</b> (After recording of completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor)
<b>Security Deposit</b>	<b>2.5% of tendered value.</b>
<b>Time For Completion of work</b>	<b>12 Months</b>

Certified that this NIT contains Part-A from **Page 6 to Page 60**, Part-B from **Page 61 to Page 87**, Part-C from **Page 88 to Page 94** with modifications and corrections up to 11<sup>th</sup> September 2020

Prepared By

Vetted By:

PA:

SAU

**1. TABLE OF CONTENTS**

<b>S.NO</b>	<b>DESCRIPTION</b>	<b>PAGE NO.</b>
1.0	Table of Contents	3
2.0	Notice Inviting E -Tender (Press/ website/ CPP Portal Notification)	5
3.0	<b>PART A : ELIGIBILITY TENDER</b>	6
3.1	Information & instructions for Tenderers for E-Tendering Forming Part of Tender Document & to be Posted on Website	7
3.1A	Format For Receipt Of Deposition Of Original EMD	10
3.2	List of documents to be filled in by the Tenderers/Tenderers	11
3.3	Notice Inviting E-Tender - NIT Form CPWD-6 ,Eligibility criteria	12
3.4	Form of Earnest Money Deposit (Bank Guarantee Bond)	21
3.5	Integrity Pact From SAU	21
3.6	Integrity Pact From Bidder	22
3.7	Integrity Agreement	23
3.8	Contract Agreement (SAU Format)	28
<b>4.0</b>	<b>PARTICULARS OF WORK/ADDITIONAL CRITERIA</b>	31
4.1	Section –I :Brief Particulars of the work	31
4.2	Section-II Additional Guidelines for Tenderer	33
4.3	Section –III Information regarding Eligibility criteria	38
4.3.1	Letter of Transmittal	38
4.3.2	FORM ‘C’ : Details of all works of similar nature completed during the last seven years	40
4.3.3	FORM ‘D’ : Projects under execution and awarded	41
4.3.4	FORM ‘E’ : Performance Report of Works to be considered for Eligibility	42
4.3.5	FORM ‘F’ : Structure & Organization of the firm/ Tenderer	43
4.3.6	FORM ‘G’ : Details of Technical &Administrative personnel to be employed for the work	45
4.3.7	FORM ‘H’ : Details of equipment likely to be used in carrying out the work	46

<b>5.0</b>	<b>PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS (CPWD-7)</b>		47
5.1	Letter of Acceptance		49
5.2	Performa of Schedules : A to F		50
<b>6.0</b>	<b>PART B – SPECIAL CONDITION, PARTICULAR SPECIFICATIONS &amp; ADDITIONAL CONDITIONS</b>		62
6.1	Special Conditions		63
6.2	Particular Specifications		83
6.3	Additional Condition of Contract		86
6.4	List of Approved Makes		88
6.5	Schedule of Drawings		89
<b>7.0</b>	<b>PART C - SCHEDULE OF QUANTITIES</b>		90
7.1	Schedule of Quantities		
7.2	CPWD GCC 2020 for Construction works	These publications are available free of cost on CPWD website <a href="http://www.cpwd.gov.in">www.cpwd.gov.in</a> (not attached here). These are part of NIT.	

**SOUTH ASIAN UNIVERSITY****Akbar Bhawan, Chanakyapuri, New Delhi-110021****2.0 NOTICE INVITING E-TENDER (Press/ website/ CPP Portal Notification)**

Registrar, South Asian University (SAU), New Delhi, 21 on behalf of the President, SAU invites online percentage rate bid in single bid system (Financial bid) from eligible tenderers/bidders, registered/enlisted in the appropriate class/category for Civil/composite works in CPWD/MES/Telecom/Railways, for the following works:

**NITNO:30/NIT/SAU/2020**

**Name of work: Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068 (Package-IA).**

Estimated Cost put to tender	<b>Rs.2,54,98,794/-</b>
Earnest Money	<b>Rs.5,10,000/-</b>
Time for Completion	<b>12 Months</b>
Last Date and Time for Submission of Tenders	<b>02.11.2020 (3:00 PM)</b>

For detailed NIT/ Tender Documents/ Details / downloads and for any other correction/ amendments/ modification / extension of time till the last date of submission of bids, please visit websites: [www.sau.int](http://www.sau.int) or [www.eprocure.gov.in](http://www.eprocure.gov.in) or [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU)

Tender submissions can only be made through online mode at [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU)

**Registrar**  
**South Asian University**

**3.0 PART A**

**ELIGIBILITY CRITERIA**

### **3.1 INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING (FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE)**

#### **Applicable for inviting bid (single bid systems)**

Registrar, South Asian University (SAU), New Delhi,21 on behalf of the President, SAU invites online percentage rate bids in single bid system (Financial bid) from eligible tenderer/bidders, registered/enlisted in the appropriate class/category for Civil/composite Works in CPWD/MES/Telecom/Railways, for the following works:

#### **3.1.1 DETAILS OF WORK FOR WHICH TENDER HAS BEEN INVITED:**

1	NIT No.	<b>30/NIT/SAU/2020</b>
2	Name of Work & Location	<b>Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Village Maidan Garhi, New Delhi, 110068. (Package-1 A)</b>
3	Estimated Cost put to tender	<b>Rs.2,54,98,794/-</b>
4	Earnest Money	<b>Rs 5,10,000/-</b>
5	Time for Completion of work	<b>12 Months</b>
6	Last date and time of submission of online tender along with copy of receipt of deposition of original EMD, e-tendering processing fee and other documents as specified in the tender document.	<b>02.11.2020 (3.00 pm)</b>
7.	Time & date of opening of bid	<b>02.11.2020 (3.30 pm)</b>

1. The intending Tenderer must read the terms and conditions of NIT/ form CPWD-6 (Notice inviting e-Tender) carefully. They should only submit their Tender if they consider themselves eligible and would be able to submit all the documents required. The eligibility criteria are given under para 1.5 of **section 3.3.1(CPWD-6)**
2. Information and Instructions for Tenderers posted on website shall form part of Tender Documents.
3. The full bid document consisting of plans, specifications, the schedule of quantities and the set of terms and conditions of the contract to be complied with and other documents(except CPWD GCC) can be seen and downloaded from website [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU) or [www.sau.int](http://www.sau.int) or [www.eprocure.gov.in](http://www.eprocure.gov.in) free of cost.
4. The bid can be submitted only through website after deposition of original EMD in the office of the Director (Finance), South Asian University, New Delhi within the period of Tender submission and uploading the mandatory scanned documents such as Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt or Fixed deposit Receipts towards EMD in favour of **South Asian University, New Delhi** as mentioned in NIT, including receipt for deposition of Original EMD to South Asian University and other documents as specified. Format of EMD receipt is attached with at 3.1A.
5. Those bidders not registered on the website mentioned above, [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU) are required to get registered beforehand. If needed they can seek help in this regard from the website of M/s Tender wizard
6. The intending Tenderer must have valid **Class-III digital signature** to submit the Tender.
7. On tender opening date of the financial bid the contractor can login and see the Tender opening process. After opening of Tenders, he will receive the competitor Tender sheets.(comparative statement sheets)
8. Bidders can upload documents in **JPG** and **PDF** format.
9. List of document to be scanned and uploaded up to date and time mentioned above is given separately at section 3.2. *Self-attested copies of all the documents shall be uploaded and originals be kept ready as these can be called for verification.*
10. The **Part - C of tender documents contains schedule of quantities (SOQ), consisting of Items based on CPWD DSR 2019.** Contractor shall quote definite percentage, above/below or at par at the designated place. If any part of SOQ or the summary of items is left blank by the bidder, the it shall be considered as zero or at par.
11. ***Contractor must ensure to quote percentage against each head. The column meant for quoting percentage in figures appears in pink colour and the moment percentage is entered, it turns sky blue.***
  - (i) In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left



blank and no percentage is quoted by the bidder, percentage of such head shall be treated as "0" (ZERO).

**(ii) However, if a tenderer does not quote any percentage above/below/at par on the total amount of the tender or any section/sub head in percentage rate tender, the tender shall be treated as at par.**

12. The Financial bid shall be opened on due date and time as mentioned above.
13. If any information furnished by the applicant is found incorrect at a later stage, **and it is found that the tenderer/bidder does not qualify as per the terms and condition of Tender**, he shall be liable to be debarred from tendering/bidding for works in South Asian University (SAU). His tender shall be cancelled and EMD forfeited. SAU reserves the right to verify the particulars and documents furnished by the applicant independently.
15. It shall be mandatory to sign the integrity pact by the bidder failing which bidder may stand disqualified from the tendering process and his bid would be summarily rejected. Integrity pact of the bid document shall be signed between Registrar SAU and the successful bidder after acceptance of bid.
16. **Dispute Redressal**; The process of dispute redressal shall be as laid down in the CPWD GCC 2020 (construction works) including its further amendments It will be mandatory to constitute Dispute Redressal Committee(DRC) & contractor or SAU can only seek arbitration after exhausting entire due process DRC shall be as mentioned in clause 25 of schedule F(Proforma of schedules).

***Self attested copies of all the documents shall be uploaded and originals kept ready as these can be called for verification***

**Registrar,**

For and on behalf of the President, SAU

**3.1A FORMAT FOR RECEIPT OF DEPOSITION OF ORIGINAL EMD**

Receipt No.....#..... /date.....#.....
<p><b>Name of Work: Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi, 110068. (Package-1 A).</b></p> <p><b>NIT No. : 30/NIT/SAU/2020</b></p> <p>1. Estimated Cost: <b>Rs.2,54,98,794/-</b></p> <p>2. Amount of Earnest Money Deposit : <b>Rs 5,10,000/-</b></p> <p>3. Last date of submission of Tender : 02.112020 (3.00 pm)</p> <p>4. Name of Contractor : .....#.....</p> <p>5. Form of EMD .....#.....</p> <p>6. Amount of Earnest Money Deposit .....#.....</p> <p>7. Date of submission of EMD .....#.....</p> <p style="text-align: center;"><b>Signature,</b></p> <p><b>(Name and Designation of EMD receiving officer along with Officer stamp)</b></p> <p><b>( # to be filled by EMD receiving authority)</b></p>

**Note:**

1. The Authority receiving EMD in original form examines the EMD deposited by the Tenderer and issues receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting authority.
2. The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency.

**3.2 LIST OF DOCUMENTS TO BE FILLED SCANNED AND UPLOADED BY THE BIDDERS**

Forms as indicated in various Sections to be scanned and uploaded in JPG format or PDF format within the period of bid submission:

1.	Demand draft/Pay order or Banker's Cheque/Fixed Deposit Receipt of a Scheduled Bank/Bank Guarantee of any Scheduled Bank towards EMD
2.	Letter of transmittal (Section 4.3.1)
3.	Integrity Pact
4.	Integrity Agreement
5.	Certificates of Works Experience (Form 'C','D'&'E'). (Section 4.3.2, 4.3.3 & 4.3.4)
6.	Structure & Organization (Form 'F').
7.	Details of Technical & Administrative Personnel (Form 'G'). (section 4.3.6)
8.	Details of Construction Equipment likely to be used in carrying out the work (Form 'H'). ( of section 4.3.7)
9.	<b>Work Experience:</b> List of similar past works and performance on these works during last seven years but not more than 10 works.
10.	Certificate of Registration for Goods & Services Tax(GST)and acknowledgement of up to date filed return.
11.	Affidavit regarding execution of qualifying work as mentioned under Para 1.5 (vi) of section 3.3
12.	Affidavit as mentioned under Para1.5 of section 4.2 – Guidelines for Tenderers
13.	Affidavit to the effect of not being black listed by any agency, as mentioned underPara1.7 of section 4.2 – Guidelines for Tenderers
14.	Certificate of enlistment under civil works category in CPWD/MES/Railways/ Telecom in appropriate category
15.	Copy of PAN card.
16.	Copy of receipt for deposition of original EMD issued from authorized person in South Asian University. The Director Finance, South Asian University or his authorized representative is authorized to receive the EMDs and issue the receipt of deposition of original EMD in the prescribed format.

**3.3 NOTICE INVITING e-TENDER – (CPWD-6)**

Registrar, South Asian University (SAU), New Delhi 21, on behalf of the President, SAU invites online percentage rate tenders in single bid system from eligible tenderer/bidders, registered/enlisted in the appropriate class/category for Civil/Composite Works in CPWD/MES/Telecom/Railways, for the following works:

**“Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi, 110068. (Package-1 A).”**

**(Important;** The South Asian University is an International University established by eight member states of SAARC region. It has been established by an act of parliament in 2008 and granted the immunity and privileges at par with united nations organisations as per ministry of External Affairs (MEA) , Govt. of India, Gazette notification dated 15<sup>th</sup> January 2009. The University is being run by contribution from all member states, however fund for construction of permanent campus including this work at Maidan Garhi is being provided by Govt. of India and the wok is to be carried out as per General Financial Rules (GFR) as amended from time to time..

**General Details;**

1	1.1	The work is estimated to cost <b>Rs.2,54,98,794/-</b> The estimated cost is based on CPWD DSR 2019 (civil) .This estimated cost, however, is given merely as a rough guide. Intending tenderer may submit the Tender after satisfying themselves that they fulfil the following eligibility criteria:-
	1.2	<b>Enlistment requirement;</b> The Tenderer must have registered in the appropriate Class/category of civil/composite works in CPWD/MES/Telecom/Railways as on date of last submission of the Tender. The bidder has to submit/ upload definite proof in this regard.
	1.3	Joint ventures are not accepted and the bidder shall not be allowed to sublet the work. Restriction under Rule 144(xi) of the GFR 2017as conveyed through Deptt. of Expenditure(PPD) dated 23rd July 2020 shall be followed.
	1.4	An Intending Tenderer is eligible to submit the Tender provided that he

		has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-
	1.5	<b>Eligibility Criteria</b> Tenderer/bidder who fulfil the following requirements shall be eligible to apply.
	A	Should have satisfactorily completed the works as mentioned below during the last Seven years ending <b>previous day of last date of submission of Tenders.</b> ;
	i	<b>Three similar works, each of value not less than Rs.1.02 Crores or two similar works, each of value not less than Rs.1.53 Crores or One similar work of value not less than Rs.2.04 Crores.</b>
	ii	Similar works means construction of boundary wall with Random Rubble (RR) Masonry (including railing), exposed and at least of ht. 1.5 meters above ground level
	iii	Important Note; -If after opening of financial Tender, it finds that the lowest bidder has not executed similar work given in above para, his Tender/bid will be rejected, earnest money deposit will be forfeited and will also be debarred from future tendering in SAU.
	iv	The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of Tender.
	v	Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Tender shall submit certified attested abstract of cost of work in support of this. The tenderer may show separately the net value of similar work certified by client
	vi	To become eligible, the Tender shall have to furnish an affidavit as under:  I / We undertake and confirm that eligible similar work(s) has / have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice , then <b>the SAU shall be at liberty to terminate/determine the contract prejudice to its right under other clauses of contract.</b> The bidder/tenderer shall be debarred for Tendering in SAU in future. Also, if such a violation comes to the notice of SAU before date of start of work, the Engineer-

		in-Charge/SAU shall be at liberty to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.
	vii	The applicant's performance for each eligible work completed in the last seven years shall be certified by an officer not below the rank of Executive Engineer or equivalent.
	1.6	The intending bidder must read the terms and conditions of CPWD-6 carefully. He should submit his bid if he considers himself eligible and he can provide all the documents required. For establishing his eligibility etc.
2		Agreement shall be drawn with the successful Tenderer on prescribed Form No. CPWD7 as amended up to the date of submission of tender, which is available as a Govt. of India Publication and also available on website <a href="http://www.cpwd.gov.in">www.cpwd.gov.in</a> or the format in practice in SAU as the case may be. Tenderer can see the SAU agreement format as mentioned under Para 5 below. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
3		The time allowed for carrying out the work will be( <b>as given in the tender notice</b> ) from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the Tender documents.
4		<p>The site for the work is available but it shall be made available in parts/phases as building/development work is also in progress. The bidder has to plan and execute work as per priorities decided and fixed by the SAU.</p> <p>The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to satisfy himself and collect all information that he considers necessary for proper assessment of the work and for quoting his rates judiciously.</p>

5		<p>The Tender document consisting of drawings/plans, specifications, schedule of quantities of items to be executed and the set of terms &amp; conditions of the contract to be complied with and other necessary documents can be seen free of cost from website <a href="http://www.sau.int">www.sau.int</a> /<a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a> and <a href="http://www.tenderwizard.com/SAU">www.tenderwizard.com/SAU</a>. Drawings/plans can also be seen in the office of the Executive Engineer, South Asian University, Akbar Bhawan, Chanakyapuri, New Delhi – 110021, on any working day between 10am to 5 pm</p> <p>The tender documents are based on CPWD standard publications like General Conditions of Contract 2020, Delhi Schedule of Rates (civil) 2019 and CPWD specifications with amendments / correction slips up to the last Date of submission of the tender which can be seen free of cost from website <a href="http://www.cpwd.gov.in">www.cpwd.gov.in</a>.the CPWD website.</p>
6		<p>After submission of the bid, the tenderer can re-submit revised bid any number of times but only before last time and date of submission of Tender as notified.</p>
7		<p>Earnest Money of <b>Rs 5,10,000/-</b> in the form of Demand Draft or Pay Order or Banker's Cheque or Fixed Deposit Receipt of a scheduled bank drawn in favour of South Asian University, New Delhi, shall be scanned and uploaded to the e- Tendering website within the period of tender submission.</p> <p>The original physical EMD (of the scanned copy uploaded) shall be deposited by the bidder in the office of the Director (Finance), SAU, who will issue a receipt for the same in the format attached with. The receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time failing which the tender shall be rejected.</p> <p>Alternatively, the EMD amount can also be transferred to the SAU account directly. The bank details of SAU are as follows</p> <p>Beneficiary Name : South Asian University  Name of Bank : State Bank of India  Bank Address : Old JNU Campus, New Delhi  Beneficiary A/C No. : 31238978138  IFSC Code/ RTGS No. : SBIN0001624  MICR Code : 110002056  PAN Number : Not Applicable in view of tax exemption.</p> <p>Online bid documents of only those bidders, whose original EMD deposited with other documents scanned and uploaded and found in order shall be opened.</p>

8	(i)	Interested Tenderer who wish to participate in the Tender have to also pay the e-Tender Processing Fee, payable to ITI Limited through their e- gateway by credit/debit card/internet banking facility.
	(ii)	Online tender documents submitted by interested bidders shall be opened of only those bidders, who have deposited e-tender processing fee with ITI Limited
	(iii)	<p>Copy of Enlistment Order and certificate of work experience and other documents as specified in the tender document for eligibility shall be scanned and uploaded to the e-tendering website within the period of tender submission.</p> <p>However, certified copy of all the scanned and uploaded documents as specified in tender document shall have to be submitted by the lowest Tender within a week physically in the office of tender opening authority.</p>
	(iv)	The Tender submitted shall be opened on dated 02.11.2020
9		<p>The Tender submitted shall become invalid, and the e-tendering processing fee shall not be refunded if:</p> <p>The bidder is found ineligible.</p> <ol style="list-style-type: none"> <li>i. The bidder does not upload all the documents including PAN card, Goods and Service Tax (GST) registration as stipulated in the tender document including the undertakings, as required/applicable if any and proof of deposition of original EMD.</li> <li>ii. Any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of tender opening authority.</li> <li>iii. The Bidder does not deposit original EMD (physical form) with south Asian University before opening of technical bid.</li> <li>iv. If a tenderer quote NIL rate against any item on item rate tender or does not quote any percentage above/below/at par on the total amount of the tender or any section/sub-head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.</li> </ol> <p><b>In any case, the e-tender processing fee shall not be refunded.</b></p>



10		<p>The tenderer whose Tender is finally accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the Tender amount within the period specified in schedule F as Banker's cheque of any scheduled bank / Demand Draft of any scheduled bank / Pay der of any Scheduled bank or Fixed Deposit Receipts of Scheduled bank or an irrevocable bank Guarantee Bonds (specimen proforma, attached at GCC) of the State Bank of India or any Scheduled Bank in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.</p> <p>The Earnest Money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.</p> <p><b><i>The contractor whose Tender is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident fund code no. as applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work</i></b></p> <p><b><i>The contractor shall also submit Programme Chart (Time and Progress) within the period specified in Schedule F.</i></b></p>
11		<p>Intending Tenderer are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their Tenders as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their Tender. A Tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra claims / payments consequent on any misunderstanding or otherwise shall be allowed. The Tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools &amp; plants, water, electricity, access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a Tender by a Tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions if any, in this</p>

		tender document and local conditions and other factors having a bearing on the execution of the work.
12		The competent authority on behalf of SAU does not bind itself to accept the lowest or any other Tender and reserves to itself the right to reject any or all the Tenders received without assigning any reason. All Tenders in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the Tenderer shall be summarily rejected.
13		Canvassing whether directly or indirectly in connection with Tenders is strictly prohibited and the Tenders submitted by the tenderers who resort to canvassing will be liable to rejection
14		The competent authority on behalf of SAU reserves to himself the right of accepting the whole or any part of the Tender and the Tenderer shall be bound to perform the same at the rate quoted.
15		The Bidder/tenderer shall not be permitted to bid for works in SAU if any of his near relative is posted as an officer in any capacity ( Grade IV or above) in SAU or Ministry of External Affairs, Govt. of India. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in the SAU or in the Ministry of External Affairs. Any breach of this condition by the tenderer would render him liable to bid and shall also be debarred from future contracts.
16		No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who has not obtained the permission of the Government of India as aforesaid before submission of the Tender or engagement in the contractor's service as the case may be.

17		<p>The Tender for the works shall remain open for acceptance for a period of <b>Seventy Five (75)</b> days from the last date of opening of tenders/bids. Further;</p> <p>(i) If any tenderer/bidder withdraws his tender/bid before the said period or issue of letter of acceptance, whichever is earlier or makes any modification in the terms and conditions of the tender/bid which is not acceptable to the SAU then the SAU shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the rebidding process of the work.</p>
18		<p>This notice inviting tender shall form a part of the contract document. The successful bidder / tenderer, on acceptance of his Tender by the Accepting Authority shall within 15 days from the letter of acceptance, sign the agreement consisting of :-</p> <p>i. The Notice Inviting Bid, all the documents including special conditions, additional conditions, particular specifications, Schedule of quantities (SOQ) and drawings, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.</p> <p>ii. Standard C.P.W.D. Form-7 or other standard CPWD forms as applicable.</p> <p>iii. An agreement on standard SAU Format on a non-judicial Stamp paper of appropriate value. (format available with SAU/attached)</p> <p>iv. Integrity Pact and Agreement as per CPWD GCC 2020.</p>
19		<p>The Tender document will include following three components:</p>
		<p><b>Part A :</b></p> <p>CPWD-6-Notice inviting e-Tender, CPWD-7 including schedule A to F, CPWD General Conditions of Contract (GCC) 2020 for construction works as applicable with all amendments/modifications upto last date of submission of the bid.</p> <p><b>Part B :</b></p> <p>Special Conditions, Additional Conditions &amp; Particular Specifications and Tender Drawings.</p> <p><b>Part C :</b></p> <p>Schedule of Quantities (SOQ)</p>
20		<p>The agency must read carefully complete NIT including Brief Particulars of work and Guideline for bidders</p>

21		After acceptance of the Tender by competent authority, SAU shall issue letter of acceptance/intent/award on behalf of the President, SAU. After the work is awarded, the main contractor will have to enter into contract agreement with SAU.
22		The work shall be treated as complete only when all the components of the work are complete, commissioned and handed over to SAU. The Completion Certificate of the work shall be recorded by authorized person of the university of the rank not less than Executive Engineer.
23		The employer (SAU) reserves the right to increase or decrease the scope of work before or after the award of work without assigning any reason to the bidder /contractor. No claim on any account whatsoever in any manner, in this regard shall be entertained by the employer (SAU).
24		<p>The bidder should keep in mind the post COVID-19 scenario and possibility/chances of future unforeseen calamities/disasters during the contract period. The same shall be dealt as per contract. However, suitable remedy such as Time extension shall be considered by SAU if;</p> <p>Any BAN on work is imposed by NGT(National Green Tribunal ) or other statutory authorities BAN/Lockdown due to Corona or any other epidemic/disaster.</p> <p>The bidder/contractor is bound to comply all regulations/SOPs/ orders/instructions of the statutory authorities/local bodies etc. in this regard without any additional cost to SAU.</p>
25		No Imported item is allowed in work as per make in India Policy of Govt. of India.

**3.4 FORM OF EARNEST MONEY DEPOSIT (BANK GUARANTEE BOND)**

NOT APPLICABLE

**3.5 INTEGRITY PACT**

To,

**M/s XXX**

**(Name and Address of Contractor)**

**Sub: NIT No. 30/NIT/SAU/2020 for the work of Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068.(Package-I A).**

Dear Sir,

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

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

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

Yours faithfully

The Registrar,

South Asian University,

Akbar Bhawan, Chanakyapuri,, New Delhi – 110021

**3.6. INTEGRITY PACT**

To,

**The Registrar,**  
South Asian University,  
Akbar Bhawan, Chanakyapuri,  
New Delhi – 110021

**Sub: NIT No. 30/NIT/SAU/2020 for the work of Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068.(Package-I A).**

Dear Sir,

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

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process.

I/We acknowledge that THE MAKING OF THE TENDER SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

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

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

Yours faithfully

(Duly authorized signatory of the Tenderer)

**3.7. INTEGRITY AGREEMENT**

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

**BETWEEN**

President, South Asian University represented through Registrar, South Asian University, Akbar Bhawan, Chanakyapuri, New Delhi – 110021, SAU, (Hereinafter referred as the '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

M/s **XXX**, (name and address of contractor), through ..... (Hereinafter referred to as the (Details of duly authorized signatory) "**Tenderer/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal / Owner has floated the Tender (**NIT No. 30/NIT/SAU/2020**) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for **Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068. (Package-I A)**. hereinafter referred to as the "Contract".

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

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

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

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

1. The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in Connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Principal/Owner will, during the Tender process, treat all Tenderer(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Tenderer(s) the same information and will not provide to any Tenderer(s) confidential / additional information through which the

Tenderer(s) could obtain an advantage in relation to the Tender process or the Contract execution.

- (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

1. It is required that each Tenderer/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Tenderer(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
- (a) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
- (b) The Tenderer(s)/Contractor(s) will not enter with other Tenderer(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of Tenders or any other actions to restrict competitiveness or to cartelize in the Tendering process.
- (c) The Tenderer(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Tenderer(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- (d) The Tenderer(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly, Tenderer(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could Tender in a tender but not



both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- (e) The Tenderer(s)/Contractor(s) will, when presenting his Tender, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Tenderer(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  4. The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
  5. The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

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

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

1. If the Tenderer(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Tenderer(s)/Contractor(s) from the Tender process or terminate/determine the contract, if already executed or exclude the Tenderer/Contractor from future contract award processes.

The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2. Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Tenderer(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in

its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Tenderer/Contractor.

3. Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Tenderer or Contractor, or of an employee or a representative or an associate of a Tenderer or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

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

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

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

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

#### **Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other Tenderers, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, SAU.

#### **Article 7- Other Provisions**

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.

- 3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

**Article 8- LEGAL AND PRIOR RIGHTS**

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

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

.....

(For and on behalf of Principal/Owner)

.....

(For and on behalf of Tenderer/Contractor)

**WITNESSES:**

1. ....

(signature, name and address)

2. ....

(signature, name and address)

Place:

Dated :

### **3.8. SAU CONTRACT AGREEMENT ( Format)**

This agreement made this day of **XX Month XX , Year XXXX**, between the **South Asian University**, established through the South Asian University Act 2008 (No. 8 of 2009 dated 11<sup>th</sup> January 2009) by the Republic of India, having its office at Akbar Bhawan, Chanakyapuri, New Delhi 110021 (hereinafter referred to as the **“the Employer”** which expression shall include its administrators, successors, executors and **assignees**) of the one part, and **XXXXX** (hereinafter referred to as the ‘Contractor’ which expression shall unless the context requires otherwise include its administrators, successors, executors and permitted assignees) of the other part.

WHEREAS, SOUTH ASIAN UNIVERSITY, is desirous of **“Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at MaidanGarhi, New Delhi 110068. (Package-I A)”**.(hereinafter referred to as the **“PROJECT or the WORK”**) and has accepted a tender submitted by the contractor for the execution and completion of such work/ Project and remedying of defects there in as per condition of contract.

This agreement is signed between (NAME).**Registrar, SAU** (for and on behalf of the employer) and **XXXX** (Authorized Signatory of Contractor) for and on behalf of the contractor.

NOW THEREFORE THIS DEED WITNESSETH AS UNDER:

#### **ARTICLE 1.0 – AWARD OF CONTRACT**

##### **1.1 SCOPE OF WORK**

**“Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at MaidanGarhi, New Delhi 110068.(Package-I A)”** as per the terms and conditions of the agreement / contract.

In this agreement, words and expression shall have the same meaning as that respectively assigned to them in the condition of contract herein after referred to.

#### **ARTICLE 2.0 – CONTRACT DOCUMENTS**

2.1 The contract shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (hereinafter referred to as “Contract Documents”).

- a) Agreement Form
- b) Letter of Acceptance
- c) Letter of Commencement of Works duly accepted by the contractor.
- d) Integrity Pact
- e) Integrity Agreement

- f) Tender Document Published on [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU), [www.sau.int](http://www.sau.int), & [www.eprocurement.gov.in](http://www.eprocurement.gov.in) .consisting of:

- i. **PART A : ELIGIBILITY TENDER**
- ii. **PART- B : SPECIAL, ADDITIONAL CONDITIONS AND PARTICULAR SPECIFICATIONS**
- iii. **PART-C - SCHEDULE OF QUANTITIES**
- iv. CPWD GCC 2020 (construction works)with up to date correction slip issued up to last date of submission of tender by the bidder. (Term SE, CE, ADG, wherever mentioned in the GCC may be read as “appropriate authority in South Asian University, New Delhi”)
- v. Tender Drawings uploaded on website shall be deemed to be part of agreement.
- vi. Any Corrigendum/amendment issued by SAU
- vii. Financial Tender Downloaded from [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU)
- viii. Documents uploaded by the contractor and other correspondence with SAU.
- ix. Contractor’s Acceptance/ Performance Bank Guarantee
- x. Power of Attorney document submitted by the contractor

### **ARTICLE 3.0 – CONDITIONS & COVENANTS**

3.1 The scope of work shall also include all such items which are not specifically mentioned in the Contract Documents and drawings but which are reasonably implied for satisfactory completion of the entire scope of work envisaged under this contract unless otherwise specifically excluded from the scope of work in the Letter of acceptance and Letter of Commencement.

3.2 Contractor shall adhere to all requirements stipulated in the Contract documents.

3.3 Time is the essence of the Contract and it shall be strictly adhered to. The progress of work shall conform to agreed works schedule/contract documents.

3.4 The rates and prices quoted include all constructional plant, labour, supervision, materials, erection, maintenance, Insurance, profit etc. together with all the general risks, liabilities and obligations set out or implied in the contract.

3.5 The contractor shall adhere to all Labour Laws of the Government and as per Contract Documents.

3.6 The total contract price for the entire scope of this contract as detailed in Letter of Acceptance is Rs.XXX (Rupees XXXX only), which shall be governed by the stipulations of the contract documents.

### **ARTICLE 4.0 – Settlement of Disputes and Arbitration**

4.1 Settlement of dispute and Arbitration shall be governed as per clause 25 of General Conditions of Contract, which are a part of this contract.

**ARTICLE 5.0 Obligation of the Contractor:**

5.1 The contractor shall ensure full compliance with tax laws of India with regard to this contract and shall be solely responsible for the same. The contractor shall submit copies of acknowledgements evidencing filing of returns every year and shall keep the Employer fully indemnified against liability of tax, interest, penalty etc. of the contractor in respect thereof, which may arise.

**ARTICLE 6.0- Notice of Default**

6.1 Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties hereto, if delivered against acknowledgment due or by FAX or by registered mail duly addressed to the signatories at the address mentioned herein above.

IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed this deed (execution whereof has been approved by the Competent Authorities of both the parties) on the day, month and year mentioned in first para above at New Delhi.

Binding Signature of the Contractor

Binding signature of the Owner

(XXX ) ( XXX)

Registrar

For and on behalf of:

For and on behalf of:

**M/s XXX (Contractor)**

**M/s SOUTH ASIAN UNIVERSITY**

WITNESS:

WITNESS:

1.

1.

2.

2.

**4.0 PARTICULARS OF WORK****4.1. BRIEF PARTICULARS OF THE WORK**

Salient details of the work for which Tenders are invited are as under:

<b><u>Salient details of the work for which Tenders are invited are as under:</u></b>	
Name of Work	<b>Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068. (Package-I A).</b>
Estimated Cost	<b>Rs.2,54,98,794/-</b>
Period of Completion	<b>12 Months</b>
1.	The site for the work at South Asian University Campus is located in Maidan Garhi Village, New Delhi near village RajpurKhurd and can be accessed from the Chattarpur-Fatehpur Beri Road
2	Some of the buildings of the permanent campus have already been constructed and are likely to be occupied very shortly. 1.3 km boundary wall has also been constructed in Package-I, in 2016. The above work is to be executed under Package-IA, over the remaining available unencumbered land. The concertina wire will also be provided in the old wall as given in the SOQ
3.	Since the wall is to be constructed on the periphery of the boundary of the university (as per the tender drawings that forms part of this tender document), the tenderer/bidder may inspect the site/area for ascertaining the site/soil conditions, strata, approaches for work, surroundings etc. No claim whatsoever in this regard shall be entertained by the University.

4.	<p>Brief scope of work( as per SOQ) includes:</p> <p><i>( The brief scope of work given below is for guidance purpose only and does not absolve the contractor from his responsibilities and duties or scope of work as per this content, even if not indicated here)</i></p> <ul style="list-style-type: none"> <li>•Jungle clearing along the profile of proposed boundary wall.</li> <li>•Excavation in ordinary soil/rock</li> <li>•Laying of 150mm PCC under footing.</li> <li>•Exposed Random Rubble masonry with cement mortar.</li> <li>•Providing precast R.C.C. coping on the top of RR masonry wall</li> <li>•Providing M.S railing on top of the RR masonry wall.</li> <li>•Providing 600mm dia. Concertina coil over M.S railing. Also providing and fixing Concertina coil on the existing boundary wall of approx. length 1.3 km</li> <li>•Painting the M.S railing with two coats of epoxy paint on new work.</li> <li>•Painting the existing M.S gates and M.S railing of the existing boundary wall with one or more coats of epoxy paint as per the direction of engineer-in-charge</li> <li>•Pointing the wall on the exposed area</li> <li>•Levelling and dressing the excavated area around boundary wall.</li> <li>•Any contingent/appurtenant work required for completion of the said item/work</li> </ul>
5.	<p>Work shall be executed according to CPWD Specification 2019, CPWD General Conditions of Contract (GCC 2020, construction works) available free of cost at <a href="http://www.cpwd.gov.in">www.cpwd.gov.in</a>) The Tenderer may also obtain the address of the outlets from the CPWD website or by Engineer-in-Charge</p>
6.	<p>The Soil report, location plan, plans &amp; elevations etc. are available for inspection in the office of the Executive Engineer, South Asian University, Akbar Bhawan New Delhi-21 on any working day between 10 AM to 5 PM and main architectural drawings are part of tender document uploaded in two websites as specified.</p>



**4.2. ADDITIONAL GUIDELINES (Information and instruction to the bidders)**

1.0		<b>GENERAL:</b>
	1.1	Letter of Transmittal and forms for deciding <b>eligibility</b> should be uploaded along with all other tender documents.
	1.2	All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, Information is furnished on a separate sheet, this fact should be mentioned against the relevant columns. Even if no information is to be provided in a column, a“nil” or“ no such case”entry should be made in that column. If any particular/query is not applicable in case of the Tenderer, it should be stated as“ not applicable”. The Tenderers are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the Tender being summarily rejected. Tenders made in forms other than specified, including those received late will not be entertained.
	1.3	References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the Tenderer should be signed by an officer not below the rank of Executive Engineer or equivalent.
	1.4	The Tenderer may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. <b>He is, however, advised not to furnish superfluous information.</b> No information shall be entertained after uploading of eligibility criteria document unless it is called for by SAU.
	1.5	The applicant/bidder must submit information of on-going litigations and litigations in which he is involved in the past seven years. In the event that the applicant has no litigations either in process or in the past seven years, an affidavit to this effect, duly notarized must be submitted in original.
	1.6	The credentials submitted in respect of qualification/eligibility for tender by the bidder may be verified, if necessary, before opening of the financial bid. The bidder will make necessary arrangement for local transport, arranging meeting with client, department, etc.  Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him disqualified and liable

		for forfeiture of Earnest Money Deposit/ Performance Guarantee and he shall be debarred from tendering/taking up of works in SAU.
	1.7	The Tenderer should not have been blacklisted by any State/Central Government Department or PSU or Autonomous bodies. <u>The bidder must submit a duly notarized affidavit to this effect.</u> Applications received without this declaration shall stand automatically rejected.
	1.8	The applicant's must submit an <b>undertaking</b> that up to date tax returns have been filed along with copies of such returns submitted to the concerned IT department/ Commercial Tax department
	1.9	Minimum requirement of Technical Staff for this work is given in <b>Clause 32</b> of Schedule F.
<b>2.0</b>		<b>DEFINITIONS:</b>
	2.1	In this document the following words and expressions have the meaning hereby assigned to them:
	2.2	<b>EMPLOYER:</b> Means the <b>South Asian University (SAU)</b> , acting through <b>the PA/PMC/Authorized representative of SAU, or successor thereof.</b>
	2.3	<b>BIDDER:</b> Means the individual, proprietary firm, firm in partnership, limited company (private or public) or corporation. <b><i>Joint ventures, consortium and special purpose vehicles are not accepted as bidders.</i></b>
	2.4	<b>"Year"</b> means "Financial Year" unless stated otherwise.
	2.5	<b>"SAU"</b> means South Asian University, New Delhi
	2.6	<b>"Engineer - in - charge"</b> means Project Manager of PMC or any authorized representative of SAU or his successor thereof.
	2.7	<b>"PMC"</b> means Project Management Consultant if any appointed by SAU for the above work.
	2.8	<b>"PA"</b> means Principal Architect appointed by SAU for the above work.
	2.9	The words <b>"Tenderer"</b> and <b>"bidder"</b> holds the same meaning so is the word <b>"Tender"</b> and <b>"bid"</b> . The term, contract/agreement, contract agreement wherever used

		(interchangeably) in this tender documents means the same
3.0		<b>METHOD OF APPLICATION:</b>
	3.1	If the Tenderer is an individual, the application shall be signed by him above his full type written name and current address.
	3.2	If the Tenderer is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
	3.3	If the Tenderer is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current address, or, alternatively, by a partner holding power of attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
	3.4	If the Tenderer is a limited company or a corporation, the application shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The Tenderer should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.
4.0		<b>FINAL DECISION MAKING AUTHORITY</b>
		<b>The employer reserves the right to accept or reject any Tender and to annul the process and reject all Tenders at any time without assigning any reason there of or incurring any liability to the Tenderers.</b>
5.0		<b>PARTICULARS OF THE WORK ARE PROVISIONAL</b>
		The particulars of the work given in Section-4.1 (Brief Particulars of work) are provisional. They are liable to change and must be considered only as advance information to assist the Tenderers. <b>Site Visit;</b> Please refer point no 4(i) of CPWD-6.
6.0		<b>ELIGIBILITY CRITERIA;</b> The Eligibility criteria has been defined under para 1.5 of section 3.3.,

		(NIT Form CPWD-6).
	6.1	The tenderer should own necessary construction equipment as per list, required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc., and submit the list of firms from whom he proposes to hire.
	6.2	The tenderer should have sufficient number of Technical and Administrative employees for proper execution of the contract. The Tenderer should submit a list of these employees stating clearly how these would be involved in this work.
7.0		<b>EXPERIENCE IN WORKS HIGHLIGHTING EXPERIENCE IN SIMILAR WORKS</b> Tenderer should furnish the following information:
	7.1	List of works of similar nature successfully completed during the last seven years (in form "C") for determining the eligibility criteria. Work order/ award letter copies to be submitted as proofs. <b>Similar works defined in the eligibility criteria Para 1.5 of section 3.3</b>
	7.2	Particulars of completed works and performance of the applicant duly authenticated/certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each eligible work completed (in Form "E").
	7.3	List of the projects under execution or awarded (in Form "D"). <b>The tenderer should list all work in this category but not more than Ten.</b>
8.0		<b>ORGANISATION INFORMATION</b> Tenderer is required to submit the information in respect to his organization (in forms 'F' & 'G').
9.0		<b>CONSTRUCTION PLANT &amp; EQUIPMENT</b> Tenderers should furnish the list of construction plant and equipment including steel shuttering, centering and scaffolding to be used in carrying out the work (in Form "H"). Details of any other plant & equipment required for the work not included in form "H" and available with the Tenderer may also be indicated.
10.0		<b>LETTER OF TRANSMITTAL</b> The Tenderer should submit the letter of transmittal attached with the

		Tender/bid document
11.0		<b>AWARD CRITERIA</b>
	11.1	The employer reserves the right, without being liable for any damages or obligation to inform the Tenderer ,to:
	a)	Amend the scope and value of contract.
	b)	Reject any or all of the applications without assigning any reason.
12.0		<b>ESSENTIAL SUBMISSIONS AND INFORMATION</b>
	12.1	The Tenderer shall provide copies of work orders as well as completion certificates from the past Employer as documentary proof for having executed similar works. However, decision with regard to eligibility of the <b>applicant/ successful Tenderer</b> will be taken by the University, only after necessary documents provided by the applicant have been examined.

**4.3 SECTION-III INFORMATION REGARDING ELIGIBILITY CRITERION****4.3.1. Letter of Transmittal**

From:

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

To,

The Registrar,  
**South Asian University,**  
**Akbar Bhawan, Chanakyapuri,**  
**New Delhi-110021**

Sub: Construction of Boundary Wall **in remaining portion of** the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068. (Package-I A).

Sir,

Having examined the details given in **Press Notice and Detailed Tender** document available on designated websites for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I/We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/We submit the certificates as per the form“ E” in support of our suitability, technical knowledge and capability for having successfully completed the following works:-

S.N.	Name of work	Amount	Certificate issued by
1.			
2.			
3.			

4. Eligibility/Tender documents are submitted online and **Earnest Money amounting to Rs.\_\_\_\_\_** in the prescribed form is deposited herewith under sealed envelope.
5. Financial Tender is submitted online.

Enclosures:-

Seal of Tenderer

Date of submission

**SIGNATURE(S) OF TENDERER(S)**

**4.3.2. DETAILS OF ALL WORKS OF SIMILAR NATURE COMPLETED DURING THE LASTSEVEN YEARS**

Name of the firm / Bidder.....

Sr no	Name of work /project and location	Owner or sponsoring organization	Cost of work in Rs, Crores	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	cases pending / in progress with details*	Litigation arbitration	(Postal & E- mail) / telephone number of officer to whom reference may be made	Name and Address	Remark
1	2	3	4	5	6	7	8	9	10	11	12
<p>* Indicate the gross amount claimed and amount awarded by the arbitrator.</p> <p style="text-align: right;"><b>SIGNATURE OF BIDDER(S) WITH STAMP</b></p>											



**4.3.3 Projects Under Execution or Awarded; (The bidder may furnish the details of not more than ten works)**

Name of the Firm/Contractor: \_\_\_\_\_

SIN.	Name of work /project and location	Owner or sponsoring organization	Cost of work in Rs, Crores	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress	Slow progress if, and reason there off	(Postal & E- mail) / telephone number of officer to whom reference may be made	Name and Address	Remark
1	2	3	4	5	6	7	8	9		10
SIGNATURE OF BIDDER(S) WITH STAMP										

**4.3.4 Performance report of works to be considered for Eligibility**

Name of the Firm/Contractor: \_\_\_\_\_

1.	Name of work / Project & Location		
2.	Agreement No.		
3.	Estimated Cost		
4.	Tendered Cost		
5.	Date of Start		
6.	Date of completion		
	i)	Stipulated Date of Completion (as mentioned in work order )	
	ii)	Actual Date of Completion	
7.	i)	Status of Compensation (Not Levied / Levied / Not Decided)	
	ii)	Amount of compensation levied for delayed completion, if any	
8.	Amount of reduced rate items, if any.		
9.	Whether any litigation / arbitration case pending / in progress in respect of this work.		
10.	Performance Report		
	1) Quality of Work		Very Good / Good / Fair / Poor
	2) Financial Soundness		Very Good / Good / Fair / Poor
	3) Technical Proficiency		Very Good / Good / Fair / Poor
	4) Resource fullness		Very Good / Good / Fair / Poor
	5) General Behavior		Very Good / Good / Fair / Poor
11	Remarks(if any):		
Dated:			Engineer-in-Charge Equivalent to EE with stamp

**4.3.5 Structure & Organization of the Firm/Tenderer**

1.	Name & Address of the bidder	
2	Telephone No. / Email ID / Telex No. / Fax No.	
3	Legal status of the bidder (attached copies of original document defining the legal status).	
(i)	An Individual	
(ii)	A Proprietary Firm	
(iii)	A Firm in Partnership	
(iv)	A Limited company or Corporation	
4.	Particulars of registration with various Government bodies (attach attested photo-copy).	
	<b>ORGANIZATION / PLACE OF REGISTRATION</b>	
	1.	
	2.	
	3.	
5	Names and Titles of Directors & Officers with designation to be concerned with this work.	
6.	Designation of Individuals authorized to act for the organization.	

7.	Was the bidder ever required to suspend Horticulture work for a period of more than six months continuously after commencing the Work? If so, given the name of the project and reasons of suspension of work	
8	Has the bidder, or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.	
9.	Has the bidder, or any constituent partner in case of partnership firm, ever been debarred/ black listed for tendering in any organization at any time? If so, give details	
10.	Have the bidder, or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.	
11.	In which field of the bidder has specialization and interest?	
12.	Any other information considered necessary but not included above.	

**Signature of Bidder with stamp**

**4.3.6 Details of Technical & Administrative Personnel to be deployed on the Work:**

Name of the Firm/Contractor: \_\_\_\_\_

Sl no.	Designation	Total Number	Number for this work	Name	Qualifications	Professional/ Construction experience and details of work carried out	How these would be involved in this work	Remarks
1	2	3	4	5	6	7	8	9
<b>Signature of bidder(with stamp)</b>								

**FORM 'H'****4.3.7 Plant And Equipment Required at Site, To Be Owned / Taken On Lease By The Contractor**

SI No.	Equipment	Minimum Numbers available
	As given in clause 18 of Schedule F	

Signed by an Authorized Signatory of the firm

With stamp

**5.0 PERCENTAGE RATE TENDER & CONTRACT FOR WORKS (CPWD-7)****SOUTH ASIAN UNIVERSITY**

**Tender for the work of:** Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068.(Package-I A).

- a. To be submitted by...15.00 Hrs. on **02.11.2020** on website: [www.tenderwizard.com/SAU](http://www.tenderwizard.com/SAU)
- b. To be opened in the presence of bidders who may be present at 15.30 Hrs. on **02.11.2020** in the office of the **Registrar, South Asian University, Akbar Bhawan, New Delhi.**

*(\* to be filled by University)*

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specification applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, (CPWD GCC 2020 with up to date amendments up to last date of submission of bid, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work –

**“Construction of Boundary Wall in remaining portion of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068.(Package-I A).”**

I/We hereby tender for the execution of the work specified for the President of South Asian University within the time specified in Schedule ‘F’, schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions referred to in Rule-1 of General Rules and Directions and in **Clause 11 of the General Conditions of contract of 2020 with amendments up to last date of submission of bid** with such materials as are provided for, by, and in respect of and in accordance with, such conditions so far as applicable.

We agree to keep the tender open for 75 (**Seventy Five**) days from the date of opening of tenders and not to make any modification in its terms and conditions.

A sum of **Rs.** ...../(Rupees.....(in words) is hereby forwarded in cash deposit or call receipt of a nationalized bank / fixed deposit receipt of nationalized bank / demand draft of a nationalized bank / bank guarantee issued by a nationalized bank as earnest money.

**EMD is having validity for 6 months or more from the last date of receipt of tenders**

A copy of receipt of deposition of earnest money **Rs.**\_\_\_\_\_in receipt Treasury Challan/ Deposit at call Receipt of scheduled bank/ Fixed deposit Receipt of scheduled bank /Demand draft or pay order or Banker’s cheque of scheduled bank/bank guarantee issued by a scheduled bank along with original instrument of EMD is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President ,SAU or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

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

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

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

Dated: .....\*\*

Signature of Contractor

\*\* Witness: \*\*

**Address: \*\***

**Postal Address \*\***

**Occupation: \*\***



**5.1            Acceptance**

The above tender (as modified by you as provided in the letters mentioned here under) is accepted by me for an on behalf of the SAU for a sum of Rs.....\* .....  
(Rupee.....\* .....  
.....).

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

- a)
- b)
- c)

**For & on behalf of SAU**

Signature\_\_\_\_\_

Dated: \_\_\_\_\_  
University .

Designation: Registrar, South Asian

**5.2 Proforma of Schedules**

<b>SCHEDULE 'A'</b>	
Schedule of Quantities or SOQ <b>(The term schedule of quantities (SOQ) or BOQ means the same wherever mentioned in this NIT).</b>	From Page No. 105 to Page No.112
<b>SCHEDULE 'B'</b>	
Schedule of materials to be issued to the contractor by SAU	NIL
<b>SCHEDULE 'C'</b>	
Tools and Plants to be hired to the contractor:	<b>NIL</b>
<b><u>SCHEDULE 'D'</u></b>	
Extra schedule for specific requirements / documents for the work, if any	<b>Nil</b>
<b><u>SCHEDULE 'E'</u></b>	
Reference to General Condition of contract (GCC):	<p>CPWD General Conditions of Contract 2020 for Construction works as amended as per applicability to SAU requirements and amended/modified up to the last date of submission of the tender/bid.</p> <p>The Standard CPWD GCC is amended from time to time through issue of OMs under series DG/CON which are available on CPWD official website at <a href="http://www.cpwd.gov.in/Documents/Official_Circulars/DG_CON">http://www.cpwd.gov.in/Documents/Official_Circulars/ DG CON</a>.</p> <p>The said Circulars issued up to last date of submission of tender shall also be deemed to be part of tender document</p>

Name Of Work	Construction of Boundary Wall in <b>remaining portion</b> of the South Asian University (SAU) Campus at Maidan Garhi, New Delhi 110068. (Package-I A).	
Estimated cost of work	: <b>Rs.2,54,98,794/-</b>	
(i) Earnest Money	: <b>Rs.5,10,000/- (To be refunded after receiving of Performance Guarantee.)</b>	
(ii) Performance Guarantee	: <b>5% of accepted tendered value</b> (After recording of completion certificate for the Construction of Boundary Wall works by the competent authority, the performance guarantee shall be returned to the contractor, without any interest)	
(iii) Security Deposit	: <b>2.5% of accepted tendered value of work to be deducted from each running bill and final bill</b>	
<b>General Rules &amp; Directions: -</b>		
Officer inviting tender:	: <b>Registrar, South Asian University</b>	
<b>Definitions:</b>		
I	Engineer-in-Charge	<b>Project Manager of PMC</b>
li	Accepting Authority	<b>President SAU through Building Works Committee (BWC), SAU</b>
lii	Percentage on cost of materials and Labour to cover all overheads and profits	<b>15%</b>

iv	Standard Schedule of Rates	<b>CPWD DSR 2019 with amendments up to date of submission of the tender.</b>
v	Department	<b>South Asian University (SAU)</b>
vi	Standard CPWD Contract Form GCC2020, CPWD form 7/8 as modified and corrected up to:	<b>CPWD Form 7 as per GCC 2020 (construction works) as modified &amp; corrected up-to last date of submission of bid.</b>
<b>Clause 1</b>		
i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance		<b>:15 (Fifteen) days</b>
ii) Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above.		<b>:7 (Seven) days</b>
iii) Time allowed for submission of programme chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.		<b>: 30 Days</b>
<b>Clause 2</b>		
Authority for fixing compensation under clause 2		<b>: President, South Asian University or successor thereof</b>
<b>Clause 2A</b>		
Whether Clause 2A shall be applicable (Early Completion)		<b>: Not Applicable</b>
<b>Clause 5</b>		

i) Number of days from the date of issue of letter of acceptance for reckoning date of start		: <b>10 (Ten) days or date of handing over of site whichever is later</b>	
<b>Table of Milestone(s)</b>			
SL. No	Description of Milestone (Physical)	Time allowed in days (From date of start)	% Amount of tendered cost to be with-held in case of non-achievement of milestone
1	Dismantling of fencing up to 300 metre. Excavation and laying PCC in footing up to a length of 200m; stone work up to plinth beam in 100m	2 months	1%
2	Excavation and laying PCC in footing up to a length of 500m; stone work up to plinth beam in 300m; RR wall up to top in 100m	4 Months	1%
3	Excavation and laying PCC in footing up to a length of 800m; stone work up to plinth beam in 500m; RR wall up to top in 300m and fixing MS railing in 200m	7 months	1%
4	Excavation and laying PCC in footing up to a length of 1000m; stone work up to plinth beam in 800m; RR wall up to top in 500m and fixing MS railing in 500m	9 months	1%
5	Completion of work, including handing over i.e providing and	12 Months	1%

	fixing concertina coil on old boundary wall.		
<p>1. The contractor will ensure that all components of the work are executed in time. In case milestones are not achieved by the contractor for the work, the amount shown against milestones shall remain withheld by the Engineer-in-charge as per condition of the contract.</p> <p>2. Withheld amount shall be released if and when subsequent milestone is achieved within respective time specified. However, in case milestones are not achieved by the Bidder for the work, the amount shown against milestone shall remain withheld.</p> <p>3. Intending bidder may submit phasing of activities/milestones based on their resources and methodology at the time of bidding corresponding to physical milestones/stages indicated in the above table. These shall be formed part of the agreement after approval of the accepting authority, otherwise it would be assumed that agency agrees with the above mentioned physical milestones.</p>			
<b>Authority to Decide:</b>			
i) Extension of time	: <b>President, SAU</b>		
(ii) Rescheduling of mile stones	: <b>President, SAU</b>		
(iii) Shifting of date of start in case of delay in handing over of site	: <b>President, SAU</b>		
<b>Clause 5.2</b>			
<b>Nature of Hindrance Register (either Physical or Electronic)</b>	: <b>Physical</b>		
<b>Clause 6, 6A</b>			
Clause applicable - (6 or 6A)	: <b>6A (Computerized Measurement Book)</b>		
<b>Clause 7</b>			

Gross work to be done together with net payment/adjustment of advances for material collected if any, since the, last such payment for being eligible to interim payment.		<b>: Rs.25 Lakhs</b>	
<b>Clause 7A ( EPFO, ESIC and BOCW)</b>		<b>: Yes, Applicable</b>	
		No running account bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer-In-Charge.	
<b>Clause 10A</b>			
List of testing equipment to be provided by the contractor at site lab.			<b>: As per table below</b>
<b>SI No.</b>	<b>Equipment</b>	<b>Quantity</b>	
<b>1</b>	Cube Mould	<b>12</b>	
<b>2</b>	Cube Testing machine	<b>1</b>	
<b>3</b>	Sieve analysis Set	<b>1</b>	
<b>4</b>	Vicats apparatus with Desk pot	<b>1</b>	
<b>5</b>	Electronic balance 600gx0.1g., 10kg	<b>1</b>	
<b>6</b>	GI tray 600x450x50mm, 450x300x40mm, 300x250x40mm	<b>1 each</b>	
<b>7</b>	Screw gauge 0.1mm-10mm, least count 0.05	<b>1</b>	
<b>8</b>	Motorized sieve shaker	<b>1</b>	

9	Pruning Rods 2 Kg weight length 40 cm and ramming face 25 Sq.mm	1
10	Extra Bottom plates for 15 cm cube mould	3
11	Standard Vibration Table for gauging the cubes	1
12	Weighing machine and Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm	1 each
13	Pyrex, corning or Borosil beakers with cover capacity 500 ml, 200 ml, 50 ml	1 each
14	Hacksaw with 6 blades	2
15	Measuring tape 3 mtrs, 5 Mtrs, 15 Mtrs, 30 Mtrs	5 each
16	Depth gauge 20cm	3
17	Shovels & Spade	3
18	Steel plates 5 mm thick 75x75 cm	4
19	Plastic or G.I. Buckets 15 ltr, 10 ltr, 5 ltr	1

**Note: Any other equipment for quality assurance as directed by the Engineer-In-Charge.**

**Clause 10B**

Whether Clause 10 B (ii) & (iii) is applicable;  
Mobilization advance and advance for T & P.

**Only Mobilization advance  
Applicable**

**Clause 10C (escalation)**

**Applicable**

Component of labour expressed as percent of  
value of work

**25%**

**Clause 10CA**

**Not Applicable**

**Clause 10CC;  
(Payment due to increase/decrease in the**

**Not Applicable**



<b>prices other than material under 10 CA):</b>		
<b>Clause 11</b>		
Specification & Mode of Measurement to be followed for execution of work	CPWD Specifications 2019. Specifications mean amended/modified up to last date of submission of tender/bid	
<b>Clause 12 (Extra/ deviation)</b>		
Type of Work	<b>Construction of boundary wall with stone masonry</b>	
Maximum percentage for quantity of items of work to be executed/Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for boundary wall work determined in accordance with Clauses 12.2, 12.3	Please refer percentage below	
Boundary wall work except foundation and items under earth work sub head.	<b>:30% (Thirty Percent)</b>	
Foundation work (except items mentioned in earth work sub head in DSR and related items)	<b>:50% (Fifty Percent)</b>	
For items mentioned in earth work sub head of DSR and related items.	<b>:100%(Hundred Percent)</b>	
<b>Clause 16</b>		
Competent Authority for deciding reduced rates	: President SAU, or successor thereof.	
<b>Clause 17</b>		
Defects Liability Period	<b>: 12 Months after completion of work</b>	
<b>Clause 18</b>		
List of mandatory minimum machinery, tools & plants to be deployed by the contractor at site:-		
<b>S. No</b>	<b>Machinery</b>	<b>Nos</b>
.		

1	Excavator cum loader ( L & T Poclain- PC- 200 or equivalent) with rock breaker arrangement	1
2	Excavator cum loader (L & T Poclain- PC- 72 or equivalent)	1
3	Excavator cum loader (JCB 3 D Model or equivalent)	2
4	Concrete pump( Minimum capacity 30 Cum Per hour and Head 90 M)	1
5	Hydraulic Drilling Machine	1
6	Needle Vibrator (electrical and petrol)	3
7	Total Stations	1
8	Electric pump/Centrifugal mono block water pump for curing and dewatering	As required on site
9	Dumpers	2
10	Bar cutting machine	1
11	Water Tanker	2
12	Mortar Mixers	2
13	Diesel generator Set as per site requirement	1
14	Concrete Mixer	2

**Note:**

- 1. The above list is only indicative and not exhaustive.** The contractor is required to deploy necessary equipment for achieving the progress as per Milestone Schedule given in Schedule F, Clause 5 and the completion of Entire Work within the stipulated time. These resources are minimum required. All plants and equipment need not to be mobilized simultaneously, plants and equipment as required as per the progress of work shall be brought at site timely.
- 2. Any other machinery / equipment / tools and Plants as required as per the agreement / specification laid down in the agreement to be provided by the contractor at no extra cost and as per the actual requirement at site.**

<b>Clause 19: Penalty for each default in following cases</b>	
<b>Clause 19C (safety provisions)</b>	Rs 500/- for each default
<b>Clause 19D (labour report)</b>	Rs 500/- for each default
<b>Clause 19G (labour health and welfare)</b>	Rs 500/- for each default
<b>Clause 19H (labour hutment)</b>	Rs 500/- for each default
<b>Clause 25</b>	
<b>Constitution of Dispute Redressal Committee (DRC)</b>	<b>: South Asian University (SAU)</b>
<b>Chairman</b>	<b>OSD/Chief Liaison Officer, SAU, or equivalent officer in SAU</b>
<b>Member</b>	<b>Director Finance, SAU</b>
<b>Member</b>	<b>MEA technical representative</b>
<b>Member</b>	<b>External Technical Expert (BWC member)</b>
<b>Presenting Officer</b>	<b>PA or Engineer in charge from PMC or Executive Engineer/ Superintending Engineer, SAU.</b>
<ol style="list-style-type: none"> <li>1. The above constitution of Dispute Redressal Committee is subject to change, for which necessary notification shall be issued by the competent authority of the SAU (i.e. the President SAU), <i>as may be required</i>.</li> <li>2. The chairman of committee or President, SAU may substitute any member in case of their non-availability.</li> <li>3. In addition to above, one or more BWC Members may be co-opted/Nominated by Chairman of the committee or by the President, SAU, whenever such a need arises.</li> </ol>	

<b>Clause 32</b>					
<b>S. No</b>	<b>Minimum qualification of Technical Representative</b>	<b>Designation</b>	<b>Minimum experience (Years)</b>	<b>No's</b>	<b>Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32</b>
1	Graduate Engineer	Principle Technical Representative	2	1	Rs.40,000/ PM
2	Diploma Engineer	Technical Representative	5	1	Rs.25,000/-PM
<ol style="list-style-type: none"> <li>1. Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.</li> <li>2. Other Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.</li> <li>3. The contractor shall submit a proof of employment or affidavit/undertaking of the technical representative(s) and shall produce evidence at any time if so required by the Engineer-in-charge.</li> <li>4. The deployment schedule of technical staff will be in accordance to sequence of work.</li> </ol>					
<b>Clause 38</b> Variation in theoretical quantities					
i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of New Delhi Schedule of Rates			<b>CPWD Delhi Schedule of Rates–2019 with amendments up to the date of submission of tender</b>
ii)		Variations permissible on theoretical quantities.			
	(a)	Cement			

		For works with estimated cost put to tender more than Rs. 5 Lakh.	: <b>2% (Two percent) Plus/Minus</b>
	(b)	Steel reinforcement and structural steel section for each diameter, section and category	: <b>2% (Two percent) Plus/Minus</b>
	(c)	All other materials	: <b>Nil</b>

**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**  
(Annexure-I)

Sl. No	Description of item	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond permissible variation
1	Cement PCC confirming to IS1489 (Part-I) Flyash based	0	Work will not be accepted
2	Steel Reinforcement	0	

**6.0 PART B**  
**SPECIAL CONDITION, PARTICULAR SPECIFICATIONS**  
**& ADDITIONAL CONDITION**

**Note:** The CPWD GCC Construction works 2020 suitably amended by SAU will not be issued along with the tender document but same shall form part of the agreement to be drawn and signed by both the parties after acceptance of tender.

## 6.1 SPECIAL CONDITIONS

- 6.1.1** The SAU may appoint/depute/assign a Project Management Consultant (PMC) for supervision of execution of the work. The PMC Project in-charge shall be the Engineer in charge and the contractor shall take necessary instructions from him.
- 6.1.2** The Contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the Boundary Wall as per architectural and Structural drawings in consultation with the Engineer-in-Charge and proceed further ensuring full structural continuity and integrated and monolithic construction. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Nothing extra shall be payable on this account. No claims, whatsoever, shall be entertained at a later date for any errors found, on plea that the information supplied by the SAU in the tender is insufficient or is at variance with the actual site conditions.
- 6.1.3** The Contractor shall, if required by him, before submission of the tender, inspect the drawings in the Office of the Executive Engineer, SAU, Akbar Bhawan, Chanakyapuri, New Delhi-110021. The SAU shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender documents have been furnished for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy thereof and/or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the tender documents. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.
- 6.1.4** The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings taken together, regardless of whether the same may or may not be particularly shown on the drawings and/or described in the specifications, provided

that the same can be reasonably inferred there from may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings (GFC). Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.

- 6.1.5** The contractor(s) shall give to the local body, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be liveable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights during the work either for illumination or for cautioning the people at night.
- 6.1.6** The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident of labours/ contractual staffs the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 6.1.7** The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scale dimensions.
- 6.1.8** There be any difference or discrepancy between the description of items as given in the schedule of quantities, specifications for individual items of work (including special conditions ,particular specifications) and I.S. Codes etc., the following order of preference shall be observed.
- i. Description of items as given in Schedule of quantities/BOQ
  - ii. Particular Specifications / Technical Specifications
  - iii. Special Conditions
  - iv. Additional conditions
  - v. Tender drawings attached
  - vi. CPWD Specifications.
  - vii. General Conditions of Contract for CPWD
  - viii. Indian Standards Specifications of B.I.S.
  - ix. General / Prevalent Industry Practice/ direction of Engineer In Charge.
- 6.1.9** The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection, testing and commissioning of



the entire works. The works to be undertaken by the contractor shall inter-alia include the following:

- i. Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable and required.
- ii. Obtaining of Statutory permissions where-ever applicable and required.
- iii. Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and rules wherever required.
- iv. All shop drawings submitted by the Contractor as per approved schedule shall be got approved by Engineer in Charge or his authorized representative before start of work.

**6.1.10** The work shall be carried out in accordance with the approved architectural drawings, structural drawings, and other drawings to be issued from time to time, by the PMC/SAU. Before commencement of any item of work the contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc. issued for the work and satisfy himself that the information available from there is complete and unambiguous.. The discrepancy, if any, shall be brought to the notice of the PMC/SAU . The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information and no claim whatsoever shall be entertained by the SAU on this account.

**6.1.11** Unless otherwise provided in the Schedule of quantities vide Part-C, the percentage tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths and nothing extra shall be payable to him on this account.

**6.1.12** The Contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.

**6.1.13** The contractor shall engage specialized agency for carrying out specialized items mentioned in this document. Before engaging such agency, the contractor shall submit the details for the approval of Engineer-in-charge, the name of the agency along with their working experience, presentation on method statement and materials being used for execution of such items etc.

**6.1.14** The Contractor shall bear all incidental charges for cartage, storage and safe custody of materials, if any as to those materials also arranged by the contractor

**6.1.15** No Imported item is allowed in work as per make in India Policy of Govt. of India.

**6.1.16** Site register & material at site Registers to be maintained by contractor:

**6.1.17** All site registers and material at site registers issued by the PMC/ SAU shall be maintained by the contractor which will be reviewed by the officers of Engineer-in-charge (PMC), or a person authorized by SAU at regular intervals. Frequency of

tests will be governed by the CPWD specifications or manufacturer specifications or as directed by Engineer In charge.

#### **6.1.18 PREVENTION OF NUISANCE AND POLLUTION CONTROL**

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during and minimum hindrance to road users or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works whatsoever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the Engineer-in-charge and disposed at designated place only. The Contractor shall take all precautions to abide by the environmental related restrictions imposed by any statutory body having jurisdiction in Delhi as well as prevent any pollution of streams, ravines, river bed and waterways

**The contractor shall follow the guidelines of South Delhi Municipal Corporation, Delhi Pollution Control Board, National Green Tribunal and all other concerned government departments and statutory bodies regarding the construction of the above work.**

- 6.1.19** Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the nearby occupants/users of building(s) if any and due to the reason that the Asola Wild Life Sanctuary is just few meters away.
- 6.1.20** The contractor shall ensure strict compliance of Govt. orders regarding precautions to be taken to control of pollution, if required he may be asked to use anti-Smog gun etc, for which nothing extra shall be paid
- 6.1.21** SAU will earmark some suitable land area (approx. 500 sqm) within SAU site, free of cost for establishing the labour hut on as is where basis is. The agency may visit the site to ascertain the feasibility with respect to prevailing labour regulations. The labour camp shall be properly isolated with 3 meters high metal barricading and security arrangements acceptable to SAU. The Contractor shall make his own arrangements to provide such accommodation as per the rules of the local bodies. Nothing shall be paid extra on account of such barricading and security of labour camp.
- 6.1.22** No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the property and the work for which payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P/Machinery brought to the site by him.

- 6.1.23** The contractor shall construct suitable godowns /storage area, yard at the site of work for storing all materials so as to be safe against damage by sun, rain, damages, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose at his cost. Some suitable land /areas shall be provided by the SAU on site for setting up of the site office and store Before starting such office/ yard the agency will submit a layout plan to SAU for approval This shall be maintained as per the prevailing norms of DPCC and NGT failing which a suitable penalty shall be imposed on the agency.
- 6.1.24** Proper temporary barricading by fencing with G.I. sheets or any other suitable material, shall be carried out by the Contractor at the start of work to physically define the boundaries of the plot area given to the agency for storing material and yard etc. for restricted entry to only those involved in the work and also to prevent any accidents, at the same time without causing any inconvenience to the traffic and the users of the buildings in the adjacent plots. He shall also provide and erect temporary protective barricades within the plot, if required, to prevent any accident. It shall be dismantled and taken away by the Contractor after the completion of work at his own cost with the approval of the Engineer-in- Charge. Nothing extra shall be payable on this account. The contractor shall maintain it during the complete period of execution and realign it if required, for execution of works. A suitable penalty/fine per day may be levied for not maintaining the barricading in good condition or breach of any of the above conditions as per the direction of Engineer-in-charge.
- 6.1.25** The contractor shall be responsible for the watch and ward/guard of the safety of all equipment, services provided by him against pilferage and breakage during the period of installations and thereafter till the work is physically handed over to SAU. No extra payment shall be made on this account and no claim shall be admissible on this account. The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / DDA / NDMC/SDMC and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities.
- 6.1.26** The water charges (for municipal water connection as well as tanker water), electricity charges etc shall be borne by the contractor. Also, if the contractor obtains water connection for drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. The clause 31A (Supply of water by department) of the General conditions of contract for CPWD works is not applicable to the tender.
- 6.1.27** For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at

his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities

- 6.1.28** All statutory taxes and levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor.
- 6.1.29** The contractor shall ensure strict compliance of Govt. orders/SOP/guidelines etc. regarding precautions/steps to be taken for COVID-19 or similar pandemics/disasters at his own cost and nothing extra on this account shall be payable by SAU
- 6.1.30** The Contractor shall make all necessary arrangements for protecting the work etc. from rains, fog or likewise extreme weather conditions, the work already executed and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.
- 6.1.31** In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.
- 6.1.32** The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) & fauna from the project area as this is prohibited

**6.1.33 SETTING OUT**

- a) The Contractor shall carry out survey of the work area, at his own cost, setting out the layout of boundary wall in consultation with the Engineer -in-Charge & proceed further.
- b) Any discrepancy between the Engineer-in-charge, architectural drawings and actual layout at site shall be brought to the notice of the Engineer -in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.
- c) The Contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer -in-Charge before commencing work.
- d) The Contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer - in- Charge.

**6.1.34** A site laboratory with the minimum equipment as specified in CPWD specifications/in this agreement shall be established, made functional and maintained within one month from the award of work as per Annexure-I without any extra cost to the SAU. In case of non-compliance / delay in compliance in this, a recovery @ Rs.5000/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor. The agency will calibrate all lab equipment as per manufacturers specifications and shall maintain a frequency chart of calibration of various lab equipment. The calibration certificate for equipment used for this project shall not be 3 month older than date of start of work. The agency will maintain a frequency chart for calibration of equipment at laboratory. The frequency of calibration of batching plant shall be one month. Notwithstanding above SAU will have the right to send the samples to independent third party labs to ensure the correctness of the equipment provided in lab.

#### **6.1.35 TOOLS AND PLANTS**

- a) The contractor should have own constructions equipment required for the proper and timely execution of the work. Nothing extra shall be paid on this account.
- b) No tools and plants including any special T&P etc. shall be supplied by the SAU and the Contractor shall have to make his own arrangements at his own cost. No claim shall be entertained on this account.

#### **6.1.36 SCAFFOLDING**

Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed, by the Contractor. Only steel shuttering will be allowed in the work.

#### **6.1.37 ROYALTY**

Royalty at the prevalent rates shall have to be paid by the Contractor on all boulders, earth, metals, shingle, all sizes stone aggregates, brick aggregates, coarse and fine sand, moorum, river sand, gravels and bajri etc. brought by him for the execution of the work, direct to the revenue authority of the state government concerned. Further, contractor may be asked to submit proof of submission of full royalty to the state government or local authority. Nothing extra shall be payable on this account

#### **6.1.38 RESPONSIBILITY**

- a) The Contractor shall protect and indemnify SAU and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.
- b) The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify SAU from any and all damages and claims that may arise on any account. The Contractor shall indemnify the SAU against all claims in respect of patent rights, royalties, design, trademarks- of

name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the SAU in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

- c) The Contractor shall be responsible for any liability imposed by law for any damage to the Work or any part thereof or to any of the materials or other things used in performing the Work or for injury to any person or persons or any property damage in or based under Work limit. The Contractor shall indemnify, keep indemnified and hold, the SAU, harmless against any and all liability, claims, loss or injury, including costs, expenses, and attorney's fees incurred in the defence of the same, arising from any allegations, whether groundless or not, of damage or injury to any person or property resulting from the performance of the Work or from any material used in the Work or from any portion of the Work or Work site or non-payment of statutory dues of any nature and penalty thereon or from any cause whatsoever during the process of the Work.
- d) The Contractor shall provide, during the entire Contract Period, such indemnification in the proforma approved by engineer in charge on a non-judicial stamp paper of appropriate value.

#### **6.1.39 CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/SUB- CONTRACTORS**

- a) The Contractor shall cooperate with and provide the facilities to the other agencies working at site for smooth execution of the work. The contractor shall indemnify the SAU against any claim(s) arising out of such disputes. The Contractor shall:
- b) The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-In-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordination manner and shall perform it in proper sequence to the complete satisfaction of others.

#### **6.1.40 SUPERVISION OF WORK**

The Contractor shall depute Site Manager & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the Contractor at New Delhi itself to avoid any likely delays on this account. The Contractor shall also furnish list of persons for specialized works to be executed for various items of work. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the PMC/Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor

shall deploy more staff or better- experienced staff at site to complete the work with quality and in stipulated time limit.

Principle Technical representative of the Contractor having experience in similar nature of work as mentioned in the clause 32 of the General Conditions of the Contract, shall always be available at the site during the actual execution of the work, failing which recovery shall be made.

**6.1.41 RATES** The rates quoted by the Contractor are deemed to be inclusive of;

- a) The site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, Horticulture, landscaping and Irrigation work of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location, implementation of green building norms to achieve desired GRIHA Rating etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- b) Unless otherwise specified in the schedule of quantities, the rates for all items of work shall be considered, as inclusive of pumping out or bailing out water, if required throughout the Horticulture and landscaping work period for which no extra payment shall be made. This shall also include water encountered from any source such as rains, floods, sub soil water table being high and/or due to any other cause whatsoever.
- c) The rates for all items of work, shall unless clearly specified otherwise, include cost of all operations and all inputs of labour, material, T & P, wastages, watch and ward, all incidental charges, all taxes, cess, duties, levies etc. except GST, required for execution of the work except which are exempted as specified in the tender documents.
- d) **Taxes:** The South Asian University is an Inter-Governmental Organization established by the SAARC (South Asian Association for Regional Co-operation) Nations and has been extended the Privileges and Immunities under Section '3' of the United Nations (Privileges and Immunities) Act, 1947 by the Government of India. The University is exempted from paying and collecting all Direct and Indirect Taxes in India. The contractor / agency therefore advised to settle his tax liability accordingly.

In terms of Article 4(1) of the Agreement among SAARC Nations for establishment of South Asian University, "the (South Asian) University and its campuses and centres shall be exempted, in the state where they are located, from paying and from collecting

all direct and indirect forms of taxes and duties for the establishment and operations of the University". In terms of Section-3 of the South Asian University Act 2008 (Act No. 8 of 2009) passed by the Parliament of the Republic of India, notwithstanding anything contrary contained in any other law, the provisions of the above referred Agreement among SAARC Nations for establishment of South Asian University shall have the force of law in India.

**i) Goods and Services Tax (GST):**

1. SAU is entitled by Govt. of India for reimbursement of GST paid to the contractors to give effect to tax exemption status of the South Asian University for the work of its campus at Maidan Garhi, New Delhi.
  2. The estimated rates in SOQ are as per CPWD, DSR 2019. **The agency may quote their rates without GST. Contractor has to pay GST as per applicable rates and he will be paid for the same by SAU.**
  3. As Goods and Services Tax (GST) is reimbursable to SAU, the Contractor shall mention UIN no; 0717UNO00175UNQ in all invoices raised to SAU. The invoice should be in conformity with the various provisions of respective GST Act.
  4. The agency shall file GST returns in a timely manner so that the GST reimbursement claims of SAU are not being dishonoured. If this happens the amount will be deducted from the dues of the contractor.
- e) **Labour Cess;** Labour Cess @ 1% shall be deducted from the gross value of work done (bill of contractor) from every RA Bill.
- f) **Ancillary and incidental facilities** required for execution of work like labour camp, stores, nursery, offices for Contractor, watch and ward, water storage tanks, installation, electricity, water, sewerage etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge for approval, a site / Horticulture and landscaping work yard layout in the area earmarked by SAU, specifying areas for Horticulture and landscaping work, site office, positioning of machinery, material yard, manure, plant and other storage, nursery, site laboratory, water tank, etc.
- g) **Working in shifts;** For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, notwithstanding the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly



or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

**6.1.42** All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

#### **6.1.43 SAFETY PRACTICES**

**WARNING/ CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account Necessary protective and safety equipment (PPE) shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor and visitors by the Contractor at his own cost and to be used at site.

- a) Appropriate Personal Protective Equipment (PPE) shall be supplied and maintained for all workers. Minimum PPE shall include a hard helmet, hi-visibility jacket, safety shoes, and gloves. Supervisors shall undertake a pre-inspection of all works to assess risks, if any.
- b) Vehicles shall be parked off the roadway so as not to obstruct driver's view of the presence of workers. Vehicles shall not, under any circumstances, be driven against the normal flow of traffic.
- c) Any vehicles used for work should be registered, roadworthy and well maintained.
- d) Carting material from one place to another to be under taken in such a manner as to cause minimum amount of pollution.
- e) Supervisors should meet the workers and instruct them about the safety aspects of the day's activities prior to commencement of work.
- f) No materials are to be stockpiled or unloaded onto the road surface except while being moved into the work area, and even then, only when barricaded and signposted with reflective warning signs.

**6.1.44 QUALITY ASSURANCE**

- a) The proposed boundary wall project is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work.
- b) The contractor shall ensure quality construction in a planned and time bound manner.
- c) Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- d) The technical representatives from SAU and the Consultants deployed by the SAU shall be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external face of work, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, absence of hollow vertical joints in stone masonry, proper compaction of filled up earth, proper compaction of foundation bed etc. to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.
- e) All materials brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In- Charge. For all other items, materials and fittings of ISI Marked shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge.
- f) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to

independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.

- g) All materials shall be got checked by the Engineer-in-Charge or his authorized supervisory staff on receipt of the same at site before use.
- h) The agency shall get the sample of work of wall, railing etc approved from the Engineer-in-charge before mass construction.
- i) The tests, as necessary, shall be conducted in the laboratory approved by the Engineer-in- Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications/CPWD specifications and/or as directed by the Engineer-in-Charge or his authorized representative.
- j) All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by Engineer-in-Charge or his authorized representative. Contractor shall be responsible for safe custody of all the registers.
- k) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places, as directed by the Engineer-in- Charge. Nothing extra shall be payable for the above.
- l) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor .The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.
- m) All the testing charges for the samples sent to outside approved laboratories shall be borne by the contractor/ SAU in the manner indicated below:
- i) By the contractor, if the results show that the material does not conform to relevant specifications and BIS codes or any other relevant code for which confirmatory test is carried out.

- ii) By the SAU, if the results show that the material confirms to relevant specifications and BIS codes or any other relevant code for which confirmatory test is carried out
- n) The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and clearance of the same before use in the work. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work. The sealed samples are to be handed over to the testing lab by contractor in the presence of Engineer- in-charge of work.

#### 6.1.45 DOCUMENTATION AND SUBMITTALS

- a) The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office. He should also keep at site at least one set of CPWD Specifications with up to date correct on slips, Analysis of rates and DSR 2019 at site and produce the same if asked for by Engineer- In-Charge. In case of non compliance, these codes will be purchased from the Market and actual cost of purchase will be recovered from the next RA Bill of the Contractor.
- b) The Contractor shall coordinate and facilitate consultant for preparing Two (02) sets of “As Built Drawings” along with literatures, manuals. This shall be the prerequisite for payment of final bill.
- c) The contractor shall make available Two (02) sets of computerized Standard Measurement Books (SMBs) having measurement of all the permanent standing. One set will be returned to the agency after verification.
- d) The Performance Guarantee shall not be released to the contractor until the aforesaid **as built drawings** are submitted to the Engineer-in-Charge/ SAU.
- e) The contractor will submit computerized measurement sheet for the work carried out by him for making payment as per Clause – 6A of the CPWD General Conditions of Contract 2020 with correction slips up to date. For casting of RCC members and other hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with Engineer in charge or his authorized representative, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.
- f) To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.
- g) Contractor shall fill-up all the forms and formats which would be provided by the sustainability consultant, and submit it to the Engineer-in-charge I a timely manner.

h) The contractor shall, during the entire tenure of the construction phase, submit the following records to the Engineer in Charge on a monthly basis:.

1. Quantum of waste (volumetric/weight basis) generated at site and the segregated waste types divided into inert, chemical and hazardous wastes.
2. Digital photo documentation to demonstrate compliance of safety guidelines
3. Quantities of material brought into the site
4. Quantities of construction debris (if at all) taken out of the site
5. Digital photographs of the works at site, the workers facilities, the waste and other material storage yards, pre-fabrication etc as guided by the Engineer in Charge

i) Before the start of construction, the contractor shall submit to the Engineer in Charge for approval,:-

- 1 A site plan along with a narrative to demarcate areas on site from which top soil has to be gathered, designate area where it will be stored, measures adopted for top soil preservation and indicate areas where it will be reapplied after construction is complete.
- 2 Certifications from manufacturers of Low VOC paints, adhesives, sealant and polishes used at this particular project site.
- 3 Submit environmental and pollution clearance certificates for all diesel generators installed as part of this project.

j) Provide total support to Engineer in Charge by the contractor in completing all Green Building Rating related formalities, including signing of forms, providing signed letters in the contractor's letterhead whenever required.

k) The contractor shall submit to engineer in charge after construction of the buildings, a detailed as built quantification of following within 10 days of recording of completion, contractor will be penalised @ Rs. 500 per day of delay of non submission SMP beyond due date to be recovered from the final bill:

- i. Total materials use
- ii. Total waste generated
- iii. Total waste reused
- iv. Total water used
- v. Total electricity consumed, and
- vi. Total diesel consumed

**6.1.46 PROGRAM CHART: (please refer clause 1 and clause 5 in sub head 5.2 (Proforma Schedules))**

- a) The Contractor shall prepare a program chart within **15 days** of issue of Letter of Award including civil activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfilment of the program within the stipulated period and submit the same for approval of the Engineer-In-Charge. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical milestones attached in the contract agreement.

- b) If at any time, it appears to the Engineer-In-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.
- c) The submission for approval by the Engineer-In-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-In-Charge to take action against the contractor as per terms and conditions of the agreement.
- d) Apart from the above integrated program chart, the contractor shall be required to submit fortnightly progress report of the work in a computerized form on 1st and 16th of every month.

#### 6.1.47 WATER/ ELECTRICITY

- a) The concrete is to be procured from RMC plant and mortar is to be made by water as per IS code and for remaining work, the university is intending to use recycled/ water received from Sewage Treatment Plant (STP) in Boundary wall construction work. As of now such water is not available within SAU campus, so the agency has to make his own arrangement for such water. Later on, in case SAU may be able to provide recycled water (subject to availability) and in that case **water charges @ 1% of gross value of work done shall be deducted from the running bill of contractor.** Contractor shall get the water tested from laboratory approved by the Engineer-in-charge at regular interval as per the CPWD Specifications. All expenses towards collection of samples, packing, transportation etc. shall be borne by the contractor, however testing charges will be paid by SAU.
- b) Contractor shall make his own arrangement for electricity/power. Nothing extra shall be paid for this. In case of difficulty in obtaining an electricity connection from independent source (BSES), the agency may request SAU to provide electricity connection from SAU on payment basis through sub metre as per actual consumption on BSES rates prevailing at that time, provided SAU is in the position of giving such connection.
- c) The SAU shall in no way be responsible for either any delay in getting electric connection or water for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the Contractor. The contractor shall be responsible for contingency arrangement of stand-by water & electric supply for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the Contractor. Nothing extra shall be payable on this account.

#### 6.1.48 CLEANLINESS OF SITE

- a) The Contractor shall not stack building material/ malba/ muck /material/on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the

Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material/ malba as stated above, the Contractor shall be liable to pay the stacking charges/penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

- b) The contractor shall take instructions from the Engineer-In-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.
- c) The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The Contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.
- d) The site is to be maintained as a tobacco free and no smoke control zone for preventing any harm to site and to maintaining the cleanliness.

#### **6.1.49 Reference to any Indian Standards;**

Wherever any reference to any Indian Standards 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

#### **6.1.50 Insurance Policies**

- a) Before commencing the execution of work, the Contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of work. **The Contractor shall obtain and submit to the PMC/Engineer-in-Charge proper Contractor All Risk (CAR) Insurance Policy for an amount 1.25 times the contract amount for this work, with South Asian University(SAU)as the first beneficiary.** The insurance shall be obtained in joint names of SAU and the Contractor (who shall be second beneficiary). Also, he shall indemnify the SAU from any liability during the execution of the work.

- b) **Further, He shall obtain and submit to the SAU, a third party insurance policy for maximum Rs.10 lakh for each accident, with the SAU as the first beneficiary.** The insurance shall be obtained in joint names of SAU and the Contractor (who shall be second beneficiary). The Contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The Contractor shall ensure that Insurance Policies are also taken for the workers of his Sub-Contractors / specialized agencies also. Without prejudice to any of its obligations and responsibilities specified above, the Contractor shall within 10 days from the date of letter of acceptance of the tender and thereafter at the end of each quarter submit a report to the SAU giving details of the Insurance Policies along with Certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-Charge.
- c) No work shall be commenced by the Contractor unless he obtains the Insurance Policies as mentioned above. Also, no payment shall be made to the Contractor on expiry of insurance policies unless renewed by the Contractor. Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.
- d) In case of any mishap during the work in progress, Contractor shall be fully responsible. Any kind of compensation shall not be paid by SAU to Contractor or his staff or worker. The Contractor to submit CAR policy, ESIC and EPF details, if required.

#### **6.1.51 INSPECTION OF WORK**

- a) In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Senior Officers of SAU & the representative of the Consultants The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.
- b) The consultant (PA) appointed by SAU shall certify on completion of the boundary that it has been constructed according to the approved drawings design and specifications.

#### **6.1.52 FINAL TESTING OF THE CONSTRUCTION WORK**

The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various construction works. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

#### **6.1.53 CONSTRUCTION PHASE AND WORKER FACILITIES**

- a. The contractor shall specify and limit construction activity in pre-planned/designated areas and shall start construction work after securing the approval for the same from



the Engineer in Charge. This shall include areas of construction, storage of materials, and material and personnel movement.

- b. SAU shall provide adequate land for storage/office to the contractor for his use as per direction of the Engineer-In-Charge. The space has to be maintained/constructed by the contractor as per his usage requirements.
- c. All spaces allotted to the contractor, as described above shall be vacated and all structures removed from site at any time as and when required and directed by the relevant authorities or by the South Asian University, unconditionally and without any reservation. The authorities or the South Asian University 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 spaces and clear and clean-up the site to the satisfaction of the Engineer-in-Charge.
- d. It shall be the specific 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 South Asian University/Authorities, the Contractor shall vacate the land totally without any reservations.

**e. Preserve and Protect Existing Landscape during Construction**

- 1. The contractor shall ensure that no trees, existing or otherwise, shall be harmed and damage to roots should be prevented during excavation, placing backfill, driving or parking heavy equipment, dumping of trash, oil, paint, and other materials detrimental to plant health. These activities should be restricted to the areas outside of the canopy of the tree, or, from a safe distance from the tree/plant by means of barricading. Trees will not be used for support; their trunks shall not be damaged by cutting and carving or by nailing posters, advertisements or other material. Lighting of fires or carrying out heat or gas emitting construction activity within the ground, covered by canopy of the tree is not to be permitted.
- 2. The contractor shall take steps to protect trees or saplings identified for preservation within the construction site.

**f. Facility to workers;**

- 1. The contractor shall provide potable water for all workers.
- 2. The Contractor/agency shall provide proper uniform to the workers with half jacket (fluorescent material) during construction works; Design to be got approved from PA/SAU, nothing shall be paid to the agency on this account.

**6.1.54 Conditions to Be Adhered To As Per Environmental Clearance Obtained From DPCC**

- a) Provision shall be made for temporary housing of labour within the site for the construction period only, with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care

along with first aid room, crèche etc. The housing may be in the form of temporary structures to be removed after completion of the project.

- b)** Health and safety norms of CPWD (as given in the GCC) should be followed during the construction work
- c)** Top soil excavated during construction work, shall be preserved and same to be used in horticulture/landscape development.
- d)** Proper measures should be adopted to control dust emissions during construction work phase by providing adequate numbers of water sprinklers.
- e)** Soil and water samples of the site should be tested by the Project Proponent (SAU) from any laboratory recognized by MOEF/DPCC to ascertain that there is no threat to ground water quality by leaching of contaminants, on quarterly basis for inclusion in the six monthly reports.
- f)** Vehicles hired for bringing material for the work to the site should be in good condition, have pollution check certificate, and conform to applicable air & noise emission standards. These vehicles should be operated only during non-peak hours. The material loaded or unloaded should be covered (especially sand, excavated soil, etc.) before transportation to avoid fugitive emissions etc.
- g)** Ambient noise levels should conform to prescribed residential standards both during day and night hours. Adequate measures should be made to reduce ambient air and noise level during work and operation phase. So as to conform to the norms stipulated by CPCB/DPCC. Ambient air and noise monitoring should be done by an accredited lab and data should be submitted along with compliance report in every six month.
- h)** Relevant Requirements of GRIHA LD 5 STAR rating, should be followed.
- i)** Regular supervision of the above and other measures for monitoring should be in place all through the work phase, so as to avoid disturbance to others.
- j)** Officials from Ministry of Environment & Forests, Regional Office, Chandigarh and Delhi Pollution Control Committee, who would be monitoring the implementation of environmental safeguards, should be given full co-operation to inspect the facilities and documents/data on site during their site inspection. As and if be required, Six-monthly monitoring reports shall be prepared and submitted by SAU to Ministry of Environment & Forests, Regional Office Chandigarh & also to DPCC, Delhi.
- k)** Ready Mixed concrete may be used to minimise the use of water.
- l)** All demolition waste should be sent to C & D waste site of MCD for recycling.

**m) Others**

- i)** All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.

- ii Wheel tyres of all vehicles used by of the contractor, or any of his sub-contractor or materials supplies shall be cleaned and washed clear of all dust/mud before leaving the project premises. This shall be done by routing the vehicles through tyre washing tracks.
- iii Contractor shall arrange for regular water sprinkling at least twice a day (i.e. morning and evening for dust suppression of the construction sites and unpaved roads used by his construction vehicles.

**NOTE: - Failure to adhere to any of the above mentioned items, shall be deemed as a violation of contract and the contractor shall be held liable for penalty as per terms of the agreement**

**6.2 PARTICULAR SPECIFICATIONS – BOUNDARY WALL CONSTRUCTION WORK****6.2.1 Scope**

- a) **Area Clearance** - The Contractor shall remove all rubbish, small plants, bushes etc. from 1.5 m on either side of the proposed boundary wall. The contractor shall be paid as per relevant Schedule of Quantities item for this work.
- b) **Boundary Demarcation** – Layout of the external boundary, as provided by the concerned authorities will be made available by South Asian University. The contractor will establish the demarcation of site boundary as established by New Delhi Development Authority (DDA), Revenue, Forest Dept. or and any other body to have final demarcation of the land and get it verified from concerned authorities if required. The execution of the boundary wall will be for the exact layout demarcated by New Delhi Development Authority and any deviation will be borne by the contractor at his risk and cost.
- c) **Stone masonry wall – Construction of stone masonry wall with plinth beam and precast coping at the top of the wall .The Ms railing with concertina coil will be fixed.**
- d) **Hand Over** all the work to authorized representative of Engineer-in-charge / South Asian University or to the contractor of next stage work as directed by the Engineer-in-charge.

**6.2.2 Conditions**

- a) The contractor shall prepare and submit to the Engineer–In-Charge, ‘Spill prevention and control plans’ before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.
- b) Contractor shall collect & submit the relevant material certificates for materials with high recycled (both post-industrial and post-consumer) content, including materials like RMC mix with fly-ash, etc.
- c) Where possible, the contractor shall select materials / vendors, harvested and manufactured regionally, within a 800-km radius of the project site. Bit exsagerated condition for boundary wall it seems
- d) Water as per IS should be used for construction works and for remaining works like curing apraying etc.recycled water will be used.
- e) Contractor should spray curing water on concrete structure/stone masonry and shall not allow free flow of water. Concrete structures should be kept covered with thick cloth/gunny bags and water should be sprayed on them.

**6.2.3 MATERIALS & FIXTURES FOR THE PROJECT**

- a) Contractor will produce wherever feasible certificate regarding distance of the source of the relevant material.
- b) Unless otherwise stated cement used at site for reinforced concrete, precast members, mortar, plaster shall be PPC (Portland Pozzolana Cement). The PPC must meet the requirements of IS 1489 (Part I) as regards to fly ash content in cement. The contractor shall obtain from the PPC manufacturer the certificate regarding fly ash content in the PPC in each batch of consignment.
- c) The contractor shall ensure that all paints, polishes, adhesives and sealants used on any surface, shall be Low VOC products. The contractor shall get prior approval from the Engineer in Charge before the application of any such material.

**6.2.4 CONSTRUCTION WASTE**

- a) The contractor shall make himself conversant with the Site Waste Management Program Manual and actively contribute to its compilation by estimating the nature and volume of waste generated by the process/installation in question.
- b) All construction debris generated during construction shall be carefully segregated and stored in a demarcated waste yard. Clear, identifiable areas shall be provided for each waste type. Employ measures to segregate the waste on site into inert, chemical, or hazardous wastes.
- c) All construction debris shall be used for road preparation, back filling, etc, as per the instructions of the Engineer in Charge, with necessary activities of sorting, crushing, etc.
- d) No construction debris shall be taken away from the site, without the prior approval of the Engineer in Charge.
- e) The contractor shall recycle the unused chemical/hazardous wastes such as oil, paint etc.
- f) If and when construction debris is taken out of the site, after prior permissions from the Engineer in Charge, the contractor shall ensure the safe disposal of all wastes and will only dispose of any such construction waste in approved dumping sites.

**6.3 ADDITIONAL CONDITIONS OF CONTRACT**

- 6.3.1** These additional conditions of contract shall be read along with the general conditions of contract, Schedule of Quantities, Particular Specifications, Drawings and other documents relating to the work
- 6.3.2** The contractor shall acquaint himself with the proposed site of work, its approach roads, working space available before quoting his rates.
- 6.3.4** The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and water-ways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor without any reservation entirely to the satisfaction of the Engineer-in-Charge.
- 6.3.5** Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of building.
- 6.3.6** The proposed boundary wall work is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like stone masonry will specifically require engagement of skilled workers having experience particularly in execution of such items.
- 6.3.7** No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work.
- 6.3.8** The contractor shall be fully responsible for any damage to the property and work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his material, T&P, Machinery brought to the site by him.
- 6.3.9** The contractor shall take instructions from the Engineer-In-Charge regarding collection and stacking of material at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan however if any change is required, the same shall be done with the approval of Engineer-In-Charge.
- 6.3.10** Quality of the stone masonry work executed shall be to the satisfaction of the Engineer-in-Charge.
- 6.3.11** A mock-up of 3m in length of the stone masonry wall complete with MS work with finishing shall be erected for approval of Engineer-in-Charge.

- 6.3.12** Random rubble quartzite stone masonry wall, shall be brought to course at levels specified in the drawings. Each stone shall be hammer dressed on face, sides and bed. The masonry wall shall have flushed/ruled pointing.
- 6.3.13** The Tenderer will strictly comply the norms of the DPCC and NGT and their order being issued time to time.
- 6.3.14** The Tenderer must note that blasting is prohibited as the site is near Asola Wildlife Sanctuary.
- 6.3.15** The concertina coil is also to be fixed over the existing railing with the help M.S. brackets. The items will be paid in respective items of BOQ. Nothing extra will be paid for working over existing work.

**6.4 LIST OF APPROVED MAKES**

**Note:** Contractor shall quote for the best of the materials as specified below, the contractor shall obtain prior approval from Engineer-In charge before placing order for the specific material / agencies

The Engineer in charge reserves the right to select any of the makes/ brands indicated in the list of approved brand / make. The Tenderer shall quote his rates on the basis of the price for the best quality product of the brand / make stipulated for the item of work in the schedule of quality / specification /list of approved brand / make.

In case of non-availability of any of the approved / specified materials / agency, during the execution of the work, the Engineer-in Charge may approve suitable equivalent brand / agency and his decision shall be final and binding on the contractor and the prices variations if any shall be adjusted accordingly.

S.no.	Item Description	Brand / Manufacturer
1.	<b>CEMENT</b>	
A	Pozzolona Portland Cement 43 MPA	ACC, L&T, Birla Super
2.	RMC	ACC,L&T,Birla,Lafarge
3.	<b>STEEL</b>	
A	Reinforcement Steel	SAIL, RINL, TISCO
B	Structural Steel Section : Beam, Channel, Tees, Flats, angles, tube	TATA, SAIL, JINDAL, RINL
C	Welding Electrodes	Advani Oerlikon, Ador, Fusion
4.	<b>Concertina Coil</b>	<b><u>Amstrong wires, A-1 Fence, Shiva Fencing</u></b>
5.	<b>PAINTS</b>	
A	Epoxy/Synthetic Enamel	Nerolac, Asian, Berger, ICI



**6.5 SCHEDULE OF DRAWINGS**

<b>ARCHITECTURAL AND LANDSCAPE DRAWINGS AND DOCUMENTS</b>		
1	BW2-A-1.0	Boundary wall Layout Plan
2	BW2-A-1.1	Boundary wall Details
3	BW2-L-01	Site plan – boundary wall slope and type

**7.0 PART C**  
**SCHEDULE OF QUANTITIES**

## 7.1. SCHEDULE OF QUANTITIES

### SUMMARY - BOUNDARY WALL & ALLIED WORKS

S.No.	Description of Work	Amount (Rs.)
1	Dismantling	-3,231.70
2	Area Clearence	42,139.76
3	Earth Work	8,64,435.15
4	Plain Cement Concrete	11,84,678.00
5	Reinforced Cement Concrete	20,02,534.48
6	Form Work	3,48,264.00
7	Stone Work	1,21,05,365.00
8	Steel Work	71,58,023.40
9	Finishing	17,96,585.30
	<b>Total</b>	<b>2,54,98,793.39</b>
	<b>Percentage to be quote by the tenderer above/below/atpar of the total amount (in %)</b>	
	<b>Percentage to be quote by the tenderer above/below/atpar of the total amount (in %) in figure</b>	
	<b>Total Quoted amount in figures</b>	
	<b>Total Quoted amount in words</b>	

**BOUNDARY WALL & ALLIED WORKS**  
**BILL OF QUANTITIES (BOQ)**

S No	DSR Code No	Description	Quantity	Unit	Rate	Amount
<b>1</b>		<b>DISMANTLING</b>				
1.1	15.34	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of :				
	15.34.2	R.C.C.	360	No.	182.60	65,736.00
1.2	15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	1717	kg	26.25	45,061.14
1.3	15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:				
	15.17.2	Channels, angles, tees and flats	3052	kg	1.70	5,188.54
1.4	MR	Credit for dismantled barbed wire & concertina wire received as per item no. 1.2 as per direction of Engineer in Charge.	1717	kg	25.00	-42,915.38
1.5	MR	Credit for dismantled MS angles received as per item no. 1.3 as per direction of Engineer in Charge.	3052	kg	25.00	-76,302.00
		<b>Total carried over to summary</b>				<b>-3,231.70</b>
<b>2</b>		<b>AREA CLEARENCE</b>				
2.1	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	3358	Sqm	12.55	42,139.76
		<b>Total carried over to summary</b>				<b>42,139.76</b>
<b>3</b>		<b>EARTH WORK</b>				
3.1	2.8	Earth work in excavation by mechanical means (Hydraulic Excavator )/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	110	cum	252.30	27,725.25

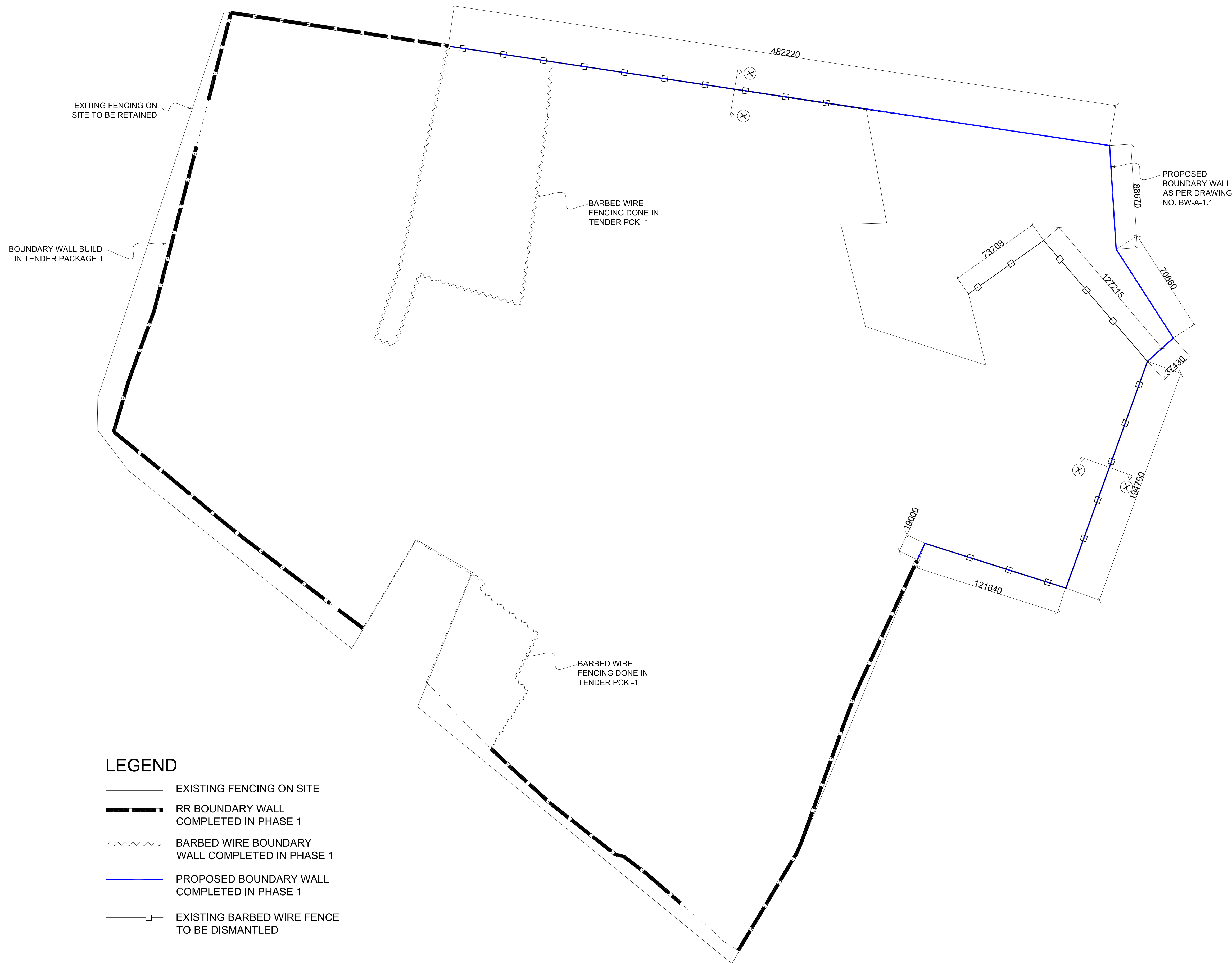
S No	DSR Code No	Description	Quantity	Unit	Rate	Amount
3.2	2.9	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.				
3.2.1	2.9.1	Ordinary rock	110	cum	448.15	49,247.20
3.2.2	2.9.3	Hard Rock (Blasting Prohibited)	787	cum	1080.55	8,49,992.24
3.3	1157	Credit for taking away the excavated hard rock from site of work as per directions of Engineer in charge. <b>(After using the available/excavated stone in boundary wall in foundation, the balance unused stone will be disposed off by the contractor by removing from site).</b>	157	cum	1100.00	-1,73,058.44
3.4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, for all lead and lift <b>(the rate is inclusive of carriage of available earth from anywhere with in site)</b>	503	cum	219.65	1,10,528.90
<b>Total carried over to summary</b>						<b>8,64,435.15</b>
<b>5</b>	<b>PCC</b>					
4.1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	130	cum	6259.10	8,16,777.00
4.2	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering complete.				
	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone III) : 3 graded stone aggregate 20 mm nominal size)	43	cum	8537.75	3,67,901.00
<b>Total carried over to summary</b>						<b>11,84,678.00</b>

S No	DSR Code No	Description	Quantity	Unit	Rate	Amount
<b>5</b>		<b>RCC</b>				
5.1	5.22 & 5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Upto all level.				
	5.22.6 & 5.22A.6	Thermo-Mechanically Treated bars.	13294	kg	83.50	11,10,072.00
5.2	5.37	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	5.37.1	All works upto plinth level	105	cum	8398.65	8,81,858.00
5.3	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	16	quintal	673.30	10,604.48
<b>Total carried over to summary</b>						<b>20,02,534.48</b>
<b>6</b>		<b>FORM WORK</b>				
6.1	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
6.1.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	336	sqm	284.85	95,646.00
6.1.2	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	458	sqm	552.05	2,52,618.00
<b>Total carried over to summary</b>						<b>3,48,264.00</b>

S No	DSR Code No	Description	Quantity	Unit	Rate	Amount
7		<b>STONE WORK</b>				
		<b>Note:- The contractor will get the sample of stone approved by PA/SAU before supply.The stone brought at site will be similar to the one used in existing boundary wall.</b>				
7.1	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : <b>(Available stone will be used in foundation for which recovery shall be made as per item no 7.2)</b>				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	849	cum	6120.80	51,98,751.00
7.2	AR	<b>Deduct for using available stone in masonry work, obtained from excavation</b> in above item no 3 after the approval of the engineer in charge. (In this case item no 3.3 shall not be operative for the corresponding quantity of stone used in wall. The quantity shall be measured in completed wall .	629	cum	1661.20	-10,45,399.00
7.3	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	1062	cum	7489.95	79,52,013.00
		<b>Total carried over to summary</b>				<b>1,21,05,365.0</b>
8		<b>STEEL WORK</b>				
8.1	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	46499	kg	131.00	60,91,369.00

S No	DSR Code No	Description	Quantity	Unit	Rate	Amount
8.2	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre.The width of tape should be 19mm before crimping on the wire.Zinc coating on the tape should be a minimum of 120gsm/sqm.(cost of M.S. angle, C.C. blocks shall be paid separately)	3668.00	m	291	10,66,654.40
<b>Total carried over to summary</b>						<b>71,58,023.40</b>
<b>9</b>		<b>FINISHING</b>				
9.1	Derived from 13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer`s specifications including preparation of surface, etc. Complete				
	13.52.1	on steel work(Primer included in base item of steel railing	1091	sqm	132.19	1,44,255.00
9.2	Derived from 13.52	Finishing with Epoxy paint (one or more coats) on old work on existing railing fixed over boundary wall after welding of frame and fixing of concertina coil complete including removal of heat scales and applying a coat of approved primer and two coats of epoxy paint over welded area including ,preparation of surface etc.complete				
		On existing steel railing over boundary wall (The MS frame are proposed to be fixed at 3 meter distance and are to be paid separately)	1371	sqm	95.85	1,31,396.00
9.3	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :				
9.3.1	13.33.1	Flush/ Ruled pointing	4896	sqm	285.40	13,97,204.10
9.3.2	13.33.2	Raised and cut pointing	238	sqm	520.75	1,23,730.20
<b>Total carried over to summary</b>						<b>17,96,585.30</b>





**LEGEND**

- EXISTING FENCING ON SITE
- RR BOUNDARY WALL COMPLETED IN PHASE 1
- BARBED WIRE BOUNDARY WALL COMPLETED IN PHASE 1
- PROPOSED BOUNDARY WALL COMPLETED IN PHASE 1
- EXISTING BARBED WIRE FENCE TO BE DISMANTLED

- NOTES & INFORMATION**
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No.	DATED	DESCRIPTION	SIGN
<b>Revisions</b>			

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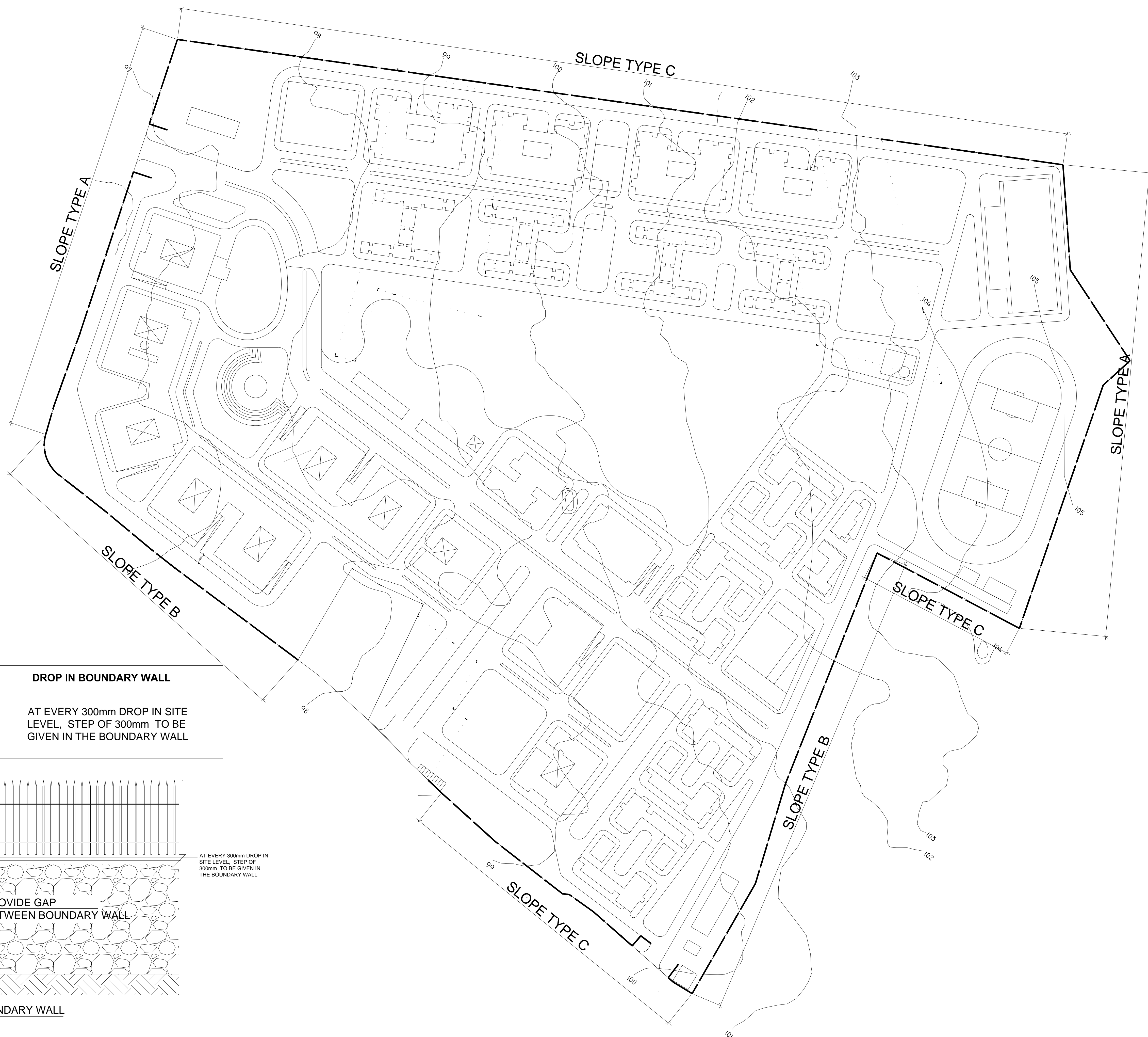
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**Boundary Wall**  
 Boundary Wall Layout Plan

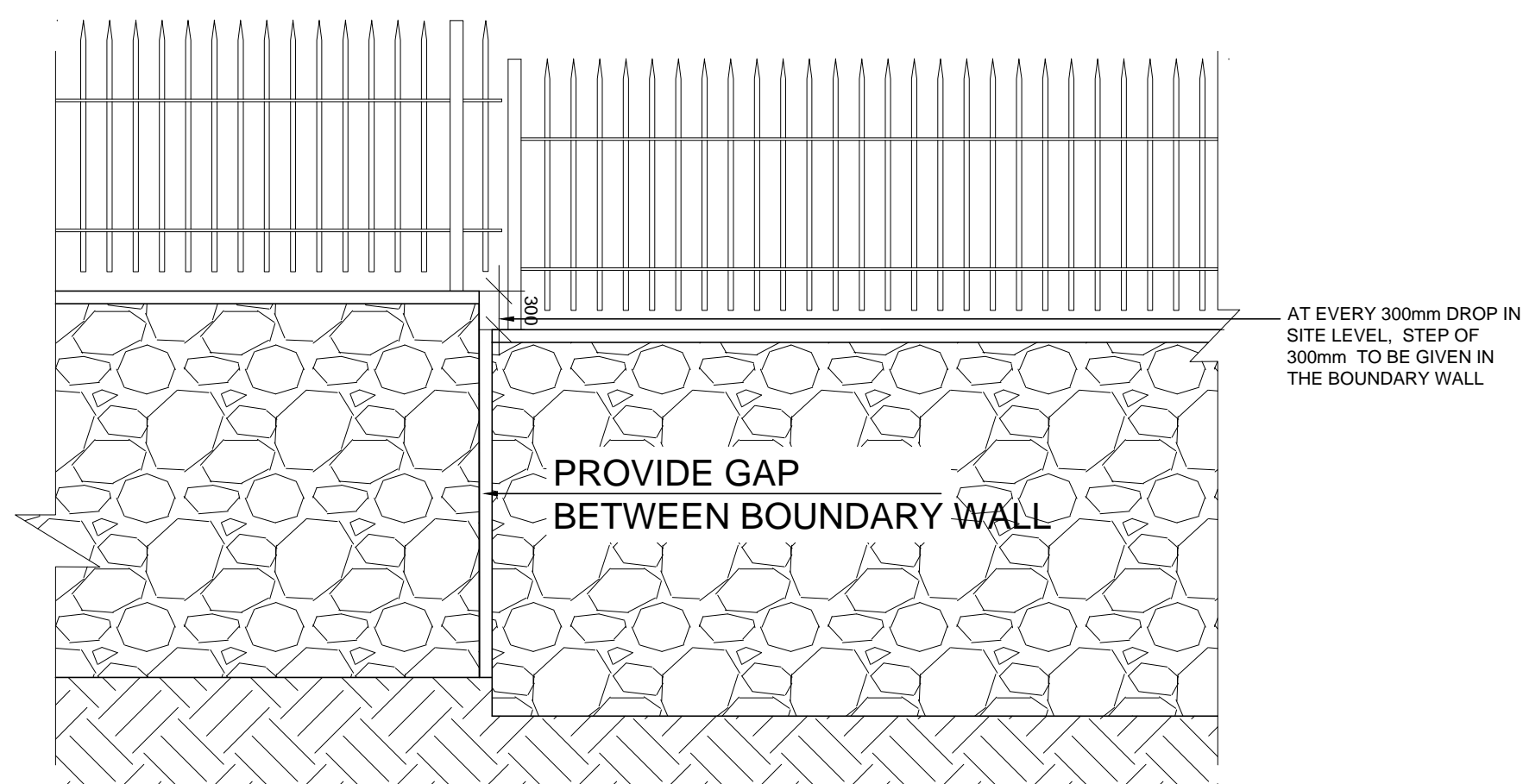
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 DRAWN BY : SHREEDHEVI      APPROVED BY : RAJESH DONGRE

PHASE	SENDER	AREA	DRAWING NUMBER	REVISION NO.
TND	ARC	BOW	BW2-A-1.0	R01

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S.NO.	SLOPE TYPE	% OF SLOPE	DROP IN BOUNDARY WALL
1	A=(0.0% TO 0.45% )	0.3 %	AT EVERY 300mm DROP IN SITE LEVEL, STEP OF 300mm TO BE GIVEN IN THE BOUNDARY WALL
2	B=(0.45% TO 0.90%)	0.7 %	
3	C=(0.9% AND ABOVE)	1.0 %	



**A** ELEVATION OF BOUNDARY WALL

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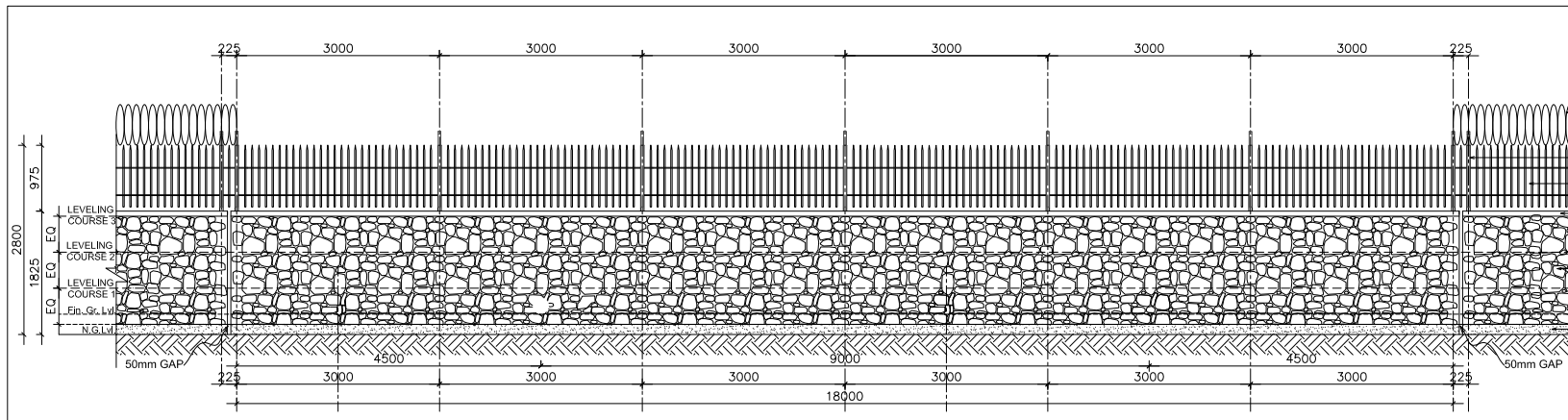
**U R S Scott Wilson India Private Ltd. :**  
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**BOUNDARY WALL**  
 Boundary Wall (Detail Drawing)

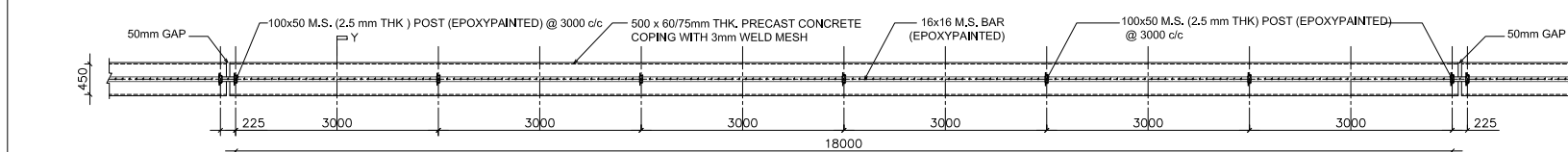
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 DRAWN BY: PRAVEEN      APPROVED BY : ANUPAM BANSAI

PHASE	SENDER	AREA	DRAWING NUMBER	REVISION NO.
T	D	R	L	A
N	B	O	W	
			<b>BW2-L-01</b>	<b>R00</b>

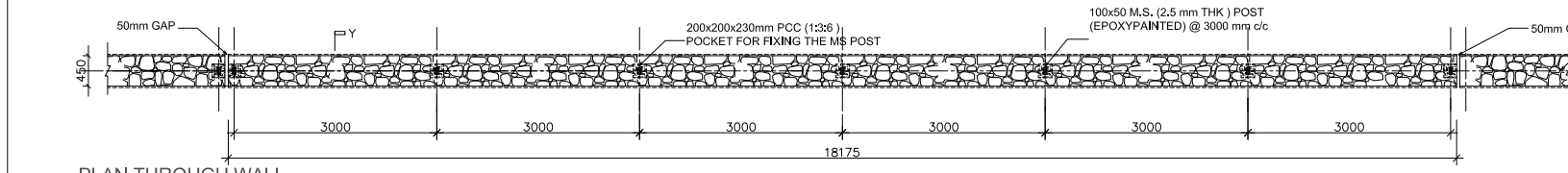
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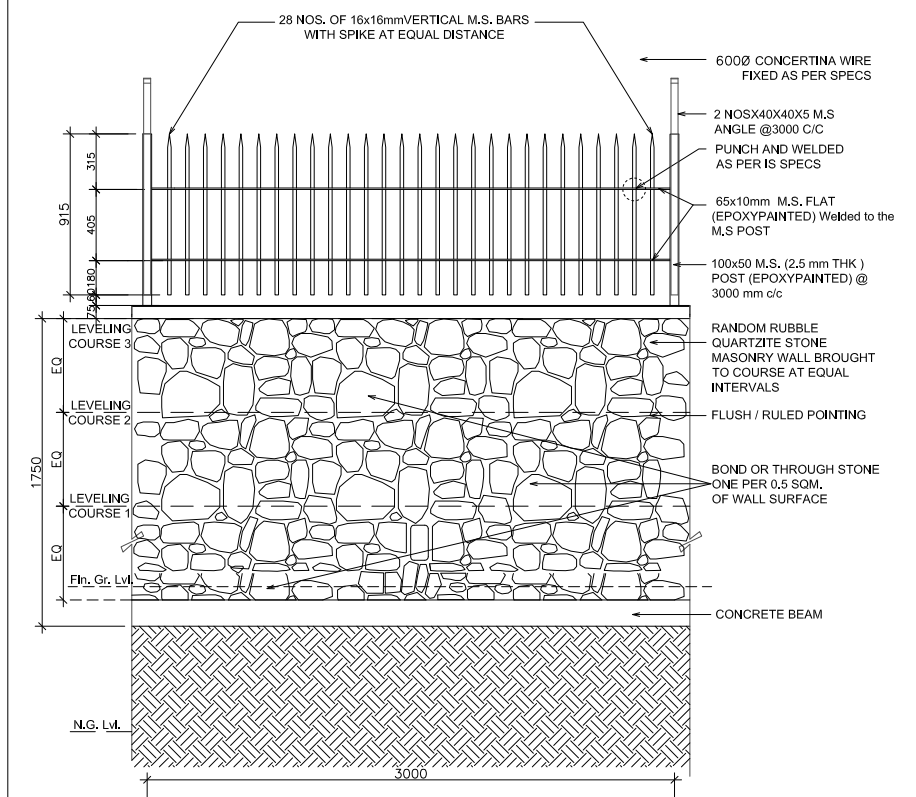
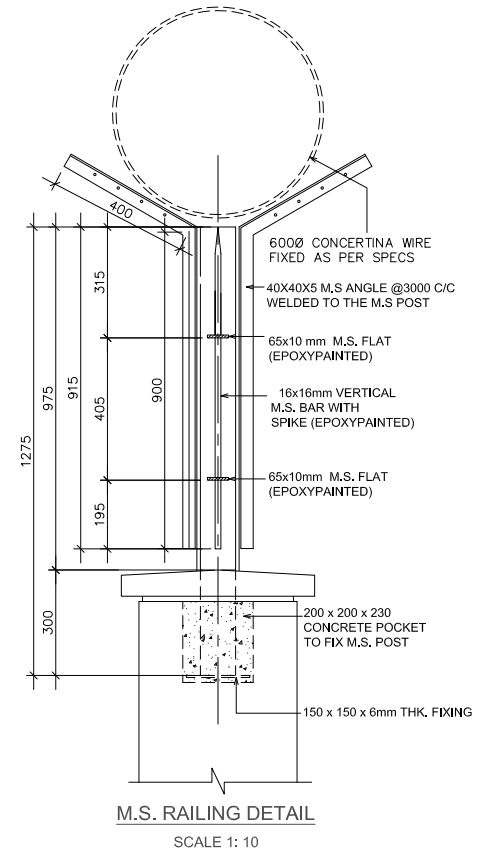
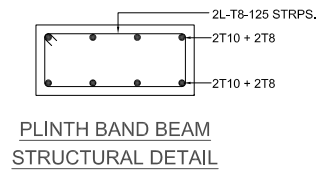
ELEVATION (FROM INSIDE)  
(BOUNDARY WALL)



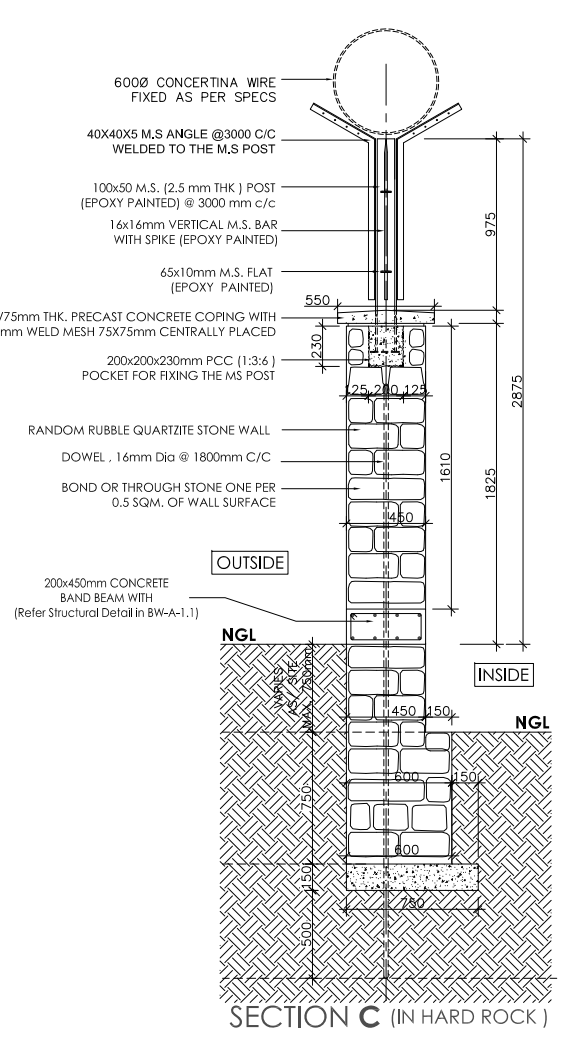
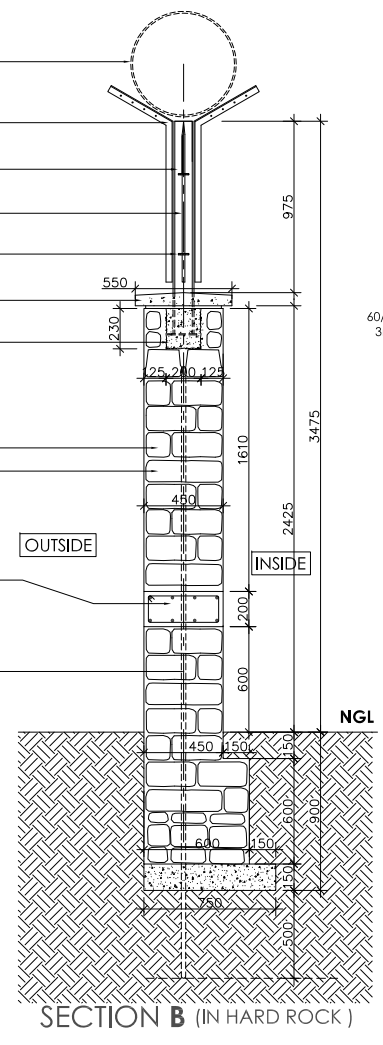
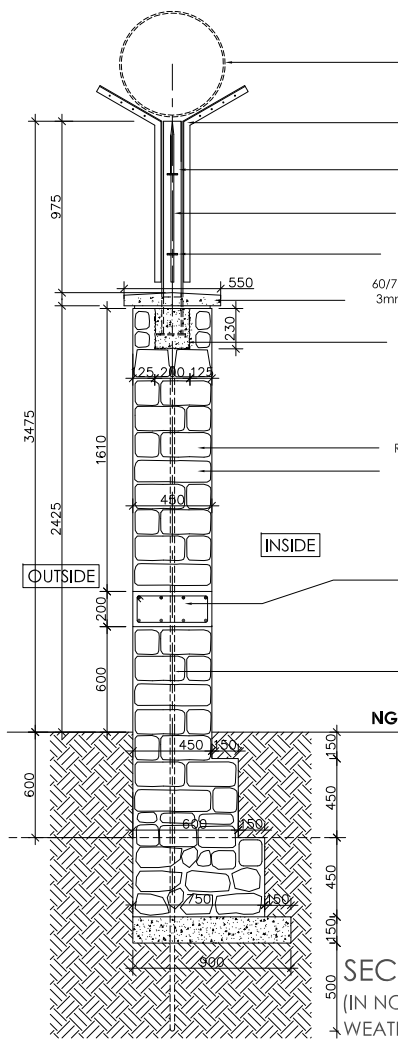
PLAN THROUGH RAILING  
(BOUNDARY WALL)



PLAN THROUGH WALL  
(BOUNDARY WALL)  
SCALE 1:50



BOUNDARY WALL ELEVATION (FROM INSIDE)  
SCALE 1:20



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  - ALL WALLS TO BE ALIGNED WITH THE PEGS INSTALLED ON SITE BY DDA
  - THE SIZE OF THE RANDOM RUBBLE USED FOR THE BOUNDARY WALL SHALL NOT BE LESS THAN 150MM AND SHALL NOT BE GREATER THAN 330MM.
  - THE CEMENT MORTAR OF 1(CEMENT):6(SAND) SHALL BE USED FOR THE RANDOM RUBBLE MASONRY

No.	DATED	DESCRIPTION	SIGN
Revisions			

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Tel: 91-124-4682 810, E-mail : archna.sharma@urs.com

N

**BOUNDARY WALL**  
BOUNDARY WALL DETAIL

SCALE : AS MENTIONED    DATE : 10.02.2020    CHECKED BY : RAJESH DONGRE  
DRAWN BY : SHREEDevi VIK    APPROVED BY : RAJESH DONGRE

PHASE	SENDER	AREA	DRAWING NUMBER	REVISION NO.
TND	ARC	BOW	BW2-A-1.1	R03 (14.02.2020)

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