HOUSING & DEVELOPMENT BOARD SPECIFICATIONS

SUPPLY OF FINE AGGREGATES TO THE HDB (BATCH 73)

SECTION 2 – SUPPLEMENTARY SPECIFICATIONS

2.1 **GENERAL**

This Specification is to be read in conjunction with the Standard Specifications for the **Supply of Fine Aggregates to the HDB.** In case of discrepancies between the Supplementary Specifications and the Standard Specifications, the former shall prevail.

2.2 **DEFINITIONS**

"Goods"

shall mean the Fine Aggregates that the Contractor is required to supply for production of concrete under the Contract.

"Approved Standard"

shall mean:

- (a) the Singapore Standard as specified in the Specifications for aggregates for concrete, and/or
- (b) other standards as specified in the Clause "Quality of Goods"

that are prevailing and applicable for the Goods at the time of testing or supply. This shall include any subsequent amendments and/or modifications and/or re-enactments thereto, unless otherwise specified.

"Approved Laboratory"

shall mean the Contractor's nominated SAC-SINGLAS accredited laboratory and/or other laboratory as approved or as directed by the

SO Rep

"Contractor's Stockyard"

shall mean any stockyard or stockyards within Singapore, including Aggregates Landing Terminal for imported Goods, used by the Contractor for the storage and trading of the Goods as authorised by the regulating government authorities for such storage and trading purposes.

2.3 METRIC COMPONENTS

Generally, the unit of measurement used in this Contract shall be metric units unless otherwise specified.

2.4 TYPE OF CONTRACT

The Contract is a Rates Contract. The Tender Rates submitted by the Contractor shall allow for all works within and all expenses arising from the Contract as detailed in the Specifications and the Conditions of Contract. The rates shall be firm and shall not be subjected to any price variations.

2.5 SCOPE OF CONTRACT

The scope of work shall include supply and delivery of a total of 500,000 tonne $\pm 20\%$ of fine aggregates (above or below Supply quantities hereinafter referred to as "Total Quantity Range") to various Sites in Singapore. The Contract Rates shall apply for the $\pm 20\%$ variation to the Supply quantity and such variation shall not constitute any variation to the Contract Rates.

The Contractor shall be required to provide all equipment and transportation for the supply and delivery of Goods to various Sites in Singapore and shall unload the Goods at specific locations within the Sites as directed.

The Contractor shall indicate his supply source in his Tender Proposal together with all the necessary information and documentary evidence to the satisfaction of the SO Rep that he is able to comply with the Employer's requirements at all time.

2.6 CONTRACT TERM

The Contract Term shall be **Twelve (12)** months commencing from the commencement date as stated in the Employer's Letter of Acceptance.

Indicatively, the commencement is in **March / April 2021**. The Contractor shall commence the Supply from the commencement date, provided he has complied with the requirements of Insurance and Security Deposit under the contract. No extension of time shall be given if he is unable to comply with the requirements of the Insurance and Security Deposit within the stipulated time.

The Employer reserves the prerogative to exercise the option to extend the Contract Term by up to the period as stated in the Appendix to the Conditions of Contract, on the same terms and conditions of the Contract. The Contractor shall ensure that in the time lapse between the end of the original Contract Term and the receipt of the extension letter, the Supply to the Sites shall not be disrupted. The Contractor shall also ensure that all the insurance policies as required under Clause 15 (5) and 15 (6) of the Conditions shall be duly extended.

2.7 QUALITY OF GOODS

2.7.1 **Source**

The Contractor shall be required to supply fine aggregates for concreting purposes from approved sources. The proposed Goods shall not be derived from Granite; or produced by crushing stone, gravel or slag. He shall comply with the laws, rules, regulations and policies laid down by the authority and the government system of the source country.

The Contractor shall furnish, together with his Tender Proposal, all information and supporting documents to the satisfaction of the SO Rep that he is able to comply with the Contract Specifications. The documents shall include but not limited to the followings:

- 1. Supporting documents for export
- 2. the BCA Stage 2 notification letter to authorize the import of Fine Aggregates from the proposed source and quarry,
- 3. all test reports as specified in Clause "Certificate Of Compliance In Tender Submission",
- 4. Quarry or mining site details, such as name, address, country, and etc., and map with grid reference showing the exact location of the quarry or mining site within the country of origin,
- 5. all necessary clearance notification letters from relevant authorities for the import of the cargo and landing of the barge in Singapore, and
- 6. other necessary supporting documents upon instructed by the Employer.

The Tenderer is required to submit the above-mentioned documents in the Tender Proposal at the close of Tender; failure to do so may render the Tender Proposal liable for rejection by the Employer.

The Contractor shall only supply the Goods from one source at any time.

The Contractor shall be required to submit <u>Landing Permit and any other relevant supporting documents</u> to the SO Rep upon arrival of each and every shipment of Supply for purpose of identification of the source of Supply.

Other than due to circumstances beyond the Contractor's control, the Contractor shall not be allowed to change the source of his Goods at his discretion for the entire Contract Term. The Contractor shall in writing seek the SO Rep's prior approval for any change in the source of his Goods, failing which the SO Rep may exercise his right under the Nuisance and Irregularities Clause against the Contractor. The Contractor shall submit the request together with all information, supporting documents, the original/certified true copy reports from SAC-SINGLAS accredited laboratory or Approved Laboratory on properties tests laid down in the Clause "Certificate Of Compliance In Tender Submission", and any other relevant tests as directed by the SO Rep for the purpose of ascertaining the suitability of the Goods from the new source. In this event, every aspect of the Specifications pertaining to the Goods from the original source shall be applicable to that from the new source and the Contractor shall ensure that these are observed and complied with so as not to cause any delay or disruption to the Supply. Notwithstanding this, the SO Rep reserves the right to require the Goods from the new source to be subjected to any additional tests as and when he deems necessary.

2.7 QUALITY OF GOODS (CONT'D)

2.7.2 Quality

The quality of Goods to be supplied throughout the Contract Term shall comply in every respect with the Approved Standard for concreting purposes. All test results including the conditions, analysis and test requirements laid down in the SSEN, BS, ASTM, etc. shall be determined in accordance with the relevant parts of the standards as specified in the Approved Standards.

In addition, the Contractor shall ensure that the Goods should not contain any constituents that are deleterious to concrete and has undergone both the Petrographic examination under ASTM Standard C295 to show the absence of reactive silica constituents and the Alkali-Silica Reactivity Test (Mortar Bar Method) under ASTM C1260 to show that the Goods are innocuous.

All local and foreign standards unless expressly specified shall be deemed to refer to the latest and shall be deemed to include any amendments, and/or modifications and/or re-enactments thereto.

2.8 CERTIFICATE OF COMPLIANCE IN TENDER SUBMISSION

The Contractor shall indicate the sources of his Supply and provide all the information required in **Appendix II**. The Contractor shall also submit together with his Tender original/certified true copy of Test Reports from SAC-SINGLAS accredited laboratories for each source of his Supply on the following properties to show that his Goods comply with the Approved Standards laid down in the Clause "Quality of Goods":

- (a) particle size distribution sieving method;
- (b) fines content (not more than 3.00%);
- (c) humus content (lighter than Organic Plate No 3);
- (d) chloride content (not more than 0.01%);
- (e) bulk density;
- (f) particle density and water absorption;
- (g) magnesium sulphate soundness;
- (h) acid soluble sulphate content;
- (i) volume stability-drying shrinkage.
- (j) petrographic examination and mortar bar method (Remark: Both tests must be conducted on the same sample in the same laboratory)
- (k) any other element(s) which may exist in the Goods.

The date of testing for Petrographic examination and Mortar Bar Method shall not be more than One year old and the date of testing for other tests in such test reports shall not be more than six (6) months from the date of Tender submission. The Contractor shall notify the Employer of any changes in production of supply likely to affect the validity of the information given.

Any Tender not accompanied by such Test Reports may render the Tender liable to rejection by the Employer.

2.9 TEST REQUIREMENTS

Within the Contract Term, the Contractor shall be required to send samples taken from his Supply of Goods for testing at the Approved Laboratory in accordance with Approved Standard on the following properties at the stipulated frequency:

Properties	Number of Test	
Particle size distribution - sieving method	One test per barge, and Optional:	
Fines Content (not more than 3%)		
Humus Content (lighter than Organic Plate No 3)	Up to a maximum of six random tests conducted for the contract.	
Chloride Content (not more than 0.01%)		
Full List of properties specified in the Clause "Certificate of Compliance in Tender Submission", excluding: (i) Petrographic examination & Mortar Bar Method; (ii) Particle size distribution - sieving method (iii) Fines Content. (iv) Humus Content, and (v) Chloride Content	One test monthly	
Petrographic examination	Two random tests over the contract term	
Mortar Bar Method (ASTM C1260)		

All costs and expenses in carrying out the tests, arranging and sending the test samples to the Approved Laboratory as required in the Contract, including the cost of samples, shall be borne by the Contractor.

The Contractor shall be required to send their Goods for the Mortar-Bar test under ASTM Standard C1260 if the need arises. In any of the event, the Contractor shall make the necessary arrangement and shall not be entitled to any monetary or other claims as a consequence of any alteration to the test frequency or additional test requirement by the Employer.

In addition, the Contractor may be required to submit, as and when demanded by the SO Rep, the original in-house production test results of the Goods available from the quarry.

The Contractor shall note that the above test requirements are in addition to any other test requirements for all Imported Goods imposed by BCA.

2.10 TESTING OF GOODS

- (a) All samples shall be tested by the Approved Laboratory. The Contractor shall provide the Landing Permit and other supporting documents for each barge/consignment of imported Goods as required by the SO Rep for verification on the source of Goods. If the SO Rep is not satisfied with such documents regarding the source of Goods, the SO Rep shall reserve the right to require Contractor to have his Goods subjected to all the tests specified in the Clause "Certificate of Compliance in Tender Submission" by the Approved Laboratory at the Contractor's own cost and expense. The Contractor is not allowed to mix the Goods from different barges, consignments, or sources of supply.
- (b) For every test, the SO Rep shall in the presence of the Contractor, take three (3) samples from the batch of Goods delivered to the Contractor's stockyard. The samples shall be kept in separate plastic bags and sealed by the Contractor in the presence of the SO Rep. Only one of the three samples will be tested, and the remaining two samples will be kept by the SO Rep. The samples so taken shall be representative of the quality of the batch of Goods supplied and shall be tested in accordance with the Clauses "Quality" and "Test Requirements". The sample of Goods in plastic bag shall be clearly labelled with the name of importer, name of quarry, type of material, Landing Permit Number and date of submission to the Approved Laboratory and such information shall be included in the Test Report.
- (c) If the sample fails any tests, the other two samples kept by the SO Rep shall be tested. If both samples pass the test or retest, the batch of Goods supplied from which the samples were taken shall be deemed to have met the Approved Standard. If either of them fails any tests, the batch of Goods shall be deemed not to have complied with the Approved Standard and shall be rejected. The costs of all such re-tests shall be borne by the Contractor.
- (d) Notwithstanding any provisions to the contrary and subject to the provisions stipulated in this Clause, the Contractor shall have provided in his Tender Rate all costs of samples and/or testing as specified, including the costs of the samples and sending the SO Rep to and fro the Approved Laboratory and/or SO Rep's office for testing and/or safekeeping of the samples.
- (e) The Contractor shall only deliver Goods from his stockyard to the Sites upon receiving all satisfactory original test reports from the Approved Laboratory by the SO Rep. Notwithstanding this and the foregoing paragraphs of this Clause, it is the responsibility of the Contractor to ensure all his Goods comply with the Approved Standards. In this respect, the SO Rep of the Employer's various construction projects reserve the right to submit for testing, samples taken at random from each and every portion of the Goods delivered to their projects. If the samples failed the tests, the costs of these tests, including re-tests if any shall be borne by the Contractor. If the samples passed the tests, the cost of testing shall be borne by the Employer. In this event, without prejudice to the Employer's right or remedy under any other clauses of the Contract, the Employer reserves the right to impose an administrative charge of \$1,000/= per occasion of test failure on Site.
- (f) If any earth/clay lumps, stones, pebbles, or oversized/unwanted particles, etc, were detected/found in the Goods at the Site or at any time during delivery, loading, unloading, inspection, sampling, the batch of Goods from which the Goods were taken shall be rejected.
- (g) Original or certified true copies of the test reports shall be retained by the Employer.

2.11 MOISTURE CONTENT OF GOODS

The Contractor shall ensure that the moisture content of the Goods shall not exceed 8%. The Contractor shall provide suitable equipment, chemical, etc. for speedy measuring of the moisture content of the Goods. The equipment, chemical, etc provided should be in good working condition and sent for verification/calibration by the relevant authority as and when directed by SO Rep.

The SO Rep and the Contractor will conduct and record the moisture content test jointly at **hourly interval** or as and when necessary or as directed by the SO Rep. However, if the moisture content exceeds 8%, the SO Rep and the Contractor will conduct and record the moisture content test jointly at **half-hourly interval** or as and when necessary or as directed by the SO Rep until the moisture content is 8% or below. The SO Rep shall reject the Goods and/or suspend the despatch if the moisture content is above 8%. All the moisture content test results including those above 8% and for the load of Goods rejected are to be recorded and signed in the Daily Site Record accordingly.

In the event, the SO Rep approves the release of Goods with the Average Daily Moisture Content exceeding 8% due to exigency of supply, the Daily Actual Quantity of the Goods will be adjusted based on the following formula:

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Daily Actual Quantity = <u>Daily Quantity Delivered x 1.08</u>.
1 + Average Daily Moisture Content
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The Contractor shall submit the moisture content records together with the claim.

2.12 TRUCKS

The Contractor shall be required to assign a fleet of trucks solely for delivering the Goods for the Employer throughout the whole Contract Term. The Contractor shall provide in **Appendix III** the particulars of the trucks to be assigned. Only the assigned trucks shall be allowed to deliver the Goods to the Sites. The Contractor shall at all times ensure that his fleet of assigned trucks are cleaned and free of foreign materials before being loaded with the Goods, so as to ensure that there is no contamination of the Goods. The Contractor shall be required to seek the SO Rep's prior approval for increasing or reducing the number of assigned trucks and the SO Rep shall be under no obligation to approve such requests.

2.13 MAINTENANCE OF SUFFICIENT STOCK

The Contractor shall, for the whole Contract Term, maintain a minimum of **7,000 tonnes of contingency stock** of Goods in his stockyard to ensure continuous supply to meet the Employer's Construction Contractors daily and monthly Orders failing which the SO Rep shall exercise his rights under the clause "Nuisance and Irregularities" to impose charges against the Contractor.

In addition, the Contractor shall plan for the layout of the stockyard for the daily operations. Goods that have been tested and approved by the SO Rep for supply shall be separated from those under stockpiling and not tested.

In the event that the Contractor's Supply is disrupted for any reason, he shall when instructed, be required to supply from the contingency stock until its depletion before he is allowed to supply from alternative sources, subjected to SO Rep's approval. The Contractor shall, upon resuming his Supply be required to replenish the contingency stock subsequently within the time frame as instructed by the SO Rep failing which the SO Rep shall exercise his rights under the clause "Nuisance and Irregularities" to impose charges against the Contractor.

2.14 CONTINGENT SUPPLY

- 2.14.1 The Contractor shall immediately inform the SO Rep when a plant breakdown and/or shipment delay occurs. The Contractor shall ensure that supply to all the Sites are not disrupted and if necessary the Contractor shall with the SO Rep's concurrence, arrange for supply assistance from the other suppliers approved by the SO Rep.
- 2.14.2 The Contractor shall still be liable for any delay or short-supply of Goods in the event of a plant breakdown or shipment delay or when he sought supply assistance from other suppliers.

2.15 DELIVERY OF AGGREGATES FROM HDB STOCKPILE SITE AT TAMPINES AVE 10

Notwithstanding Clause 2.14, in the event that the Contractor is unable to supply the Goods for any reason, the SO Rep reserves the right to instruct the Contractor to provide equipment and transportation services for delivery of the Employer's own supply of Goods from the HDB Stockpile Site at Tampines Ave 10 to the designated sites. In this event of a disruption in the supply of 20mm aggregates or fine aggregates, the Contractor shall be paid the Contract Rates as tendered by the Contractor in the Form of Tender on:

- a) "Provision of front-end loaders and other equipment for the loading of fine aggregates and/or 20mm aggregates onto trucks at the Contractor's stockyard for delivery, etc. as specified"; and
- b) "Supply of transportation services for delivery of fine aggregates and/or 20mm aggregates from Contractor's stockyard to Designated Sites".

The Contractor shall be required to comply with the conditions in <u>APPENDIX IV</u> for delivery of Goods from HDB Stockpile Site at Tampines Ave 10. The Contractor shall be deemed to have included any additional costs and expenses arising from such delivery in the Contract Rates payable to the Contractor as specified hereinabove.

Notwithstanding above, should the Contractor be unable to supply the Goods due to reasons other than that specified in Clause 22(2) of the Conditions of Contract, the SO Rep shall be empowered to exercise his rights under the Clause "Failure in Supply" to take necessary actions against the Contractor.

2.16 <u>VERIFICATION OF WEIGHBRIDGES</u>

The Contractor shall ensure that his weighbridges are verified by Weights & Measures Office's Authorized Verifiers before the commencement of the Contract and shall at all time service and maintain his weighbridges to comply with The Weights and Measures Act throughout the whole Contract Term all at his own cost.

The Contractor shall produce certificate of verification of weight and measure for each weighbridge when demanded by the SO Rep. If the Contractor fails to produce valid Verification Certificate for each weighbridge, the Employer shall reserve the right to instruct the Contractor to have his weighbridges verified by the Authorized Verifiers within twenty-one (21) days and the Contractor shall bear all costs including delays in the Supply of Goods to the Sites.

In the event that the Contractor does not comply with the instruction, the Employer shall employ Authorized Verifier to verify all the Contractor's weighbridges and shall recover all cost incurred from any sum due to the Contractor. The Employer shall not be responsible for any loss of revenue incurred by the Contractor during the verification exercise.

2.17 SUPPORT SYSTEM

The Contractor shall provide at the Contractor's Stockyard a computerised weight-capturing system (hereinafter referred to as "System" for the purpose of this Clause) inclusive of one (1) unit of computer hardware, software, printer, modem, delivery order forms before the commencement of the Contract Term. The Contractor shall also provide personnel to operate the computer hardware, the sales system and generate delivery orders throughout the Contract Term for the supply and delivery of Goods to the various Sites.

The Contractor shall make necessary provision in the Contract Rate for the upgrading of the Contractor's sales system to allow the import of materials order distribution from the Employer's Enterprise Resource Planning System and/or IT system and the export of daily sales summary for uploading of the daily sales summary information to the Employer's Enterprise Resource Planning System and/or IT system. The Contractor shall design, develop and test the import and export files and reports in the format as instructed by the SO Rep to ensure smooth and seamless import and export of files and reports with the Employer's Enterprise Resource Planning System and/or IT system.

The System shall comply with and adhere to the **IDA IT Security Best Practices (up-to-date version)**. The proposed System shall include but not limited to the following requirements:

- (a) Adequate audit trails must be captured and contain information needed to determine sensitive events that would indicate possible fraudulent use of the system (e.g. repeated unsuccessful logons, access attempts over a series of days, disenable of auto-capture of weight). This information includes such information as who, what, when, where, and any special information such as: - success or failure of the event; and - use of authentication keys, where applicable.
- (b) All forms of audit trail shall be appropriately protected against unauthorised modification or deletion.
- (c) System privileges shall be granted to users only on a need-to-use basis.
- (d) An audit trail of activities conducted by privileges users shall be maintained and reviewed.
- (e) Privileged userids shall only be used locally and the usage shall be allowed during a certain time period. This can be controlled by the security administrator.
- (f) Transactions that meet exception criteria shall be completely and accurately highlighted.
- (g) password control to different level of users.
- (h) generation of reports such as daily delivery summary, truck tare weight reports, audit trail report, etc.

2.17 SUPPORT SYSTEM (CONT'D)

The Contractor shall note that no manual keying of any weight data into the sales system is allowed at any time unless otherwise approved. In this respect, the Contractor shall ensure that the sales system is able to provide the necessary security against any manual entry of weight data, and at the same time, allow for controlled manual overriding of the automatically recorded weight data if and when necessary and such manual overriding action shall be automatically recorded in an audit trail showing the time, changes made and the identity of the person effecting the change.

The Contractor shall provide and ensure that the computer hardware, supporting software and printer are in good working condition and pay for all maintenance, license fees and modification costs for the hardware and software throughout the Contract Term. The Contractor shall include all costs relating to the modifications, repair and maintenance of the computerised sales system and also the necessary upgrading of computer hardware and peripheral due to change or upgrading of the software, if any, in the Tender Rate.

The Contractor shall conduct User Acceptance Test to demonstrate to the SO Rep that all the requirements in the Contract Specifications have been satisfied prior to the approval to use the System.

2.18 INFORMATION TO BE SUPPLIED

The Contractor shall submit three complete sets of CDRW-ROM containing all information and reports relating to the Contract within one week after the Contract Completion Date. All the information and reports shall be in the format as required by the SO Rep.

The information and reports shall include but not limited to the following:

- (a) Tender Proposal including supporting documents (in PDF format) as submitted during the Tender Stage and shall include but not limited to the supporting documents as stipulated in the Clause "Source" and the Clause "Quality";
- (b) Test Reports (in PDF format) as stipulated in the Clause "Test Requirements";
- (c) Tax invoices (in PDF format), moisture content records (in PDF format) and daily delivery summary (in Excel format) as stipulated in the Clause "Payment" of the Standard Specifications

The Contractor shall compile all the information and reports monthly from the Contract Commencement Date till the Contract Completion Date.

Notwithstanding the requirements as specified in the above, the SO Rep may in its discretion instruct the Contractor to submit the information and reports at any time within the Contract Term.

2.19 CONTRACTOR'S STOCKYARD

The Contractor shall indicate the location and the capacity of the Stockyard to which he will supply and store the Goods in **Appendix II** as attached with the Specifications. The Stockyard shall have a minimum area of **3,800 square metres**. The Stockyard shall be solely for the supply of goods specified in this contract. The Contractor shall ensure that the proposed Stockyard is suitable and adequate for the efficient storage, collection and delivery of the Goods.

If the Contractor's stockyard is catered for working, contingency & untested stock separately at different plots, the stockyards should be within the same location area. Each stockyard shall be setup with weighbridge & verified it in accordance to clause 2.16.

The Contractor's Stockyard premise(s) shall be installed with Closed Circuit Television (CCTV) System capturing the following areas: (a) the entire stockyard plot, (b) both entrance and exit area of the stockyard plot; and (c) the weighbridge area.

The CCTV system must come with the capability for SO Rep to play back history event and export video footage. The system shall have the capacity of recording the cameras video images or footage not lower than the following minimum requirements:

- (a) Camera resolution not less than 2 MP,
- (b) 12.5 frame per second.
- (c) 90 days continuous recording for the CCTV system with minimum 20% additional buffer storage capacity provision and
- (d) 24 hours supervising of failure to electricity supply to the CCTV system, camera, and memory device.

The supplier shall retrieve and provide to the SO Rep the specified recorded video footage as and when requested.

The CCTV System and the weighbridges setup will be the property of the contractor upon completion of the contract.

Other than due to circumstances beyond the Contractor's control, the Stockyard shall not be relocated at the discretion of the Contractor for the entire Contract Term. The Contractor shall seek the SO Rep's approval in writing at least three months in advance for any relocation of the Stockyard. In this event, every aspect of the Specifications pertaining to the Supply to the original Stockyard shall be applicable to that the new Stockyard and the Contractor shall ensure that these are observed and complied with so as not to cause any delay or disruption to the Supply. The Contractor shall be deemed to have allowed in his Tender Rate any additional costs incurred in Stockyard relocation and the operation of the new Site and he shall not be allowed to claim for any additional costs or extensions of time from the Employer.

2.20 PROVISION OF SUPPORT SYSTEMS AND TRAINING FOR WEIGHBRIDGE OPERATIONS DURING DISRUPTION

In the event of a disruption in either the supply of fine aggregates or 20mm aggregates, the contractor may be required to support the release of materials from the HDB stockpile site at Tampines Ave 10 by:

- a. Providing the necessary support systems, including hardware, software and sales system for the material release operations
- b. Providing the necessary training to manpower provided by HDB MA in weighbridge operations for the material release operations

Both the employer and contractor agree to the following contingency rates:

DESCRIPTION	Unit	Price / Unit (Excl. GST)
(i) initial set-up of complete support systems (refer to clause 2.17), inclusive of training	Lump Sum per weighbridge per manpower	\$1,220
(ii) rental of complete support systems (refer to clause 2.17)	Monthly Rate per weighbridge	\$2,260

HOUSING & DEVELOPMENT BOARD

SOURCE	OF FINE	AGGREGATES	SLIPPLY
SOUNCE		AGGINEGATES	JUFFLI

As required under the Specification we are supplying the Goods from the following sources:					
Size :	m ²				
our Supply together with this	GLAS accredited laboratory or Approved Tender on the following properties:				
particle size distribution - sieving method; fines content (not more than 3.00%); humus content (lighter than Organic Plate No 3); chloride content (not more than 0.01%); bulk density; particle density and water absorption; magnesium sulphate soundness; acid soluble sulphate content; volume stability-drying shrinkage. petrographic examination and mortar bar method (Remark: Both tests must be conducted on the same sample in the same laboratory) any other element(s) which may exist in the Goods.					
	e will duly write to you with the report on oval.				
SIGNATURE :					
NAME :					
DATE :					
ADDRESS :					
	Location of Source (detailed address) ockyard: Size: he test report from SAC-SING our Supply together with this particle size distribution - si fines content (not more than humus content (lighter than chloride content (not more bulk density; particle density and water a magnesium sulphate sound acid soluble sulphate content volume stability-drying shrip petrographic examination at tests must be conducted or laboratory) any other element(s) which witch our source of Supply, we specifications for your approximations for your ap				

HOUSING & DEVELOPMENT BOARD

STATEMENT ON TRUCKS WHICH THE CONTRACTOR UNDERTAKES TO SUPPLY

The Contractor is to detail below the registration number, type, payload of each of the Trucks which he undertakes to supply during the whole Phase Term and he is to state whether they are his OWN ir

	I numbers of Trucl	ks should be maintain	ned at all times and may have to be
Registration No.	<u>Type</u>	<u>Payload</u>	Own/Hired
No. of Trucks Owned			Nos.
No. of Trucks Hired			Nos.
Total No. of Trucks			Nos.
We undertake to provide the SO Rep in writing dur			Iditional numbers as directed by
		SIGNATURE :	
		NAME :	
		DATE :	
		ADDRESS :	
COMPANY STAMP			