

SECTION 1 – GENERAL CONDITIONS AND PRELIMINARIES

Item	Description	Amount S\$
	<p><u>Section No. 1</u></p> <p><u>GENERAL CONDITIONS AND PRELIMINARIES</u></p> <p><u>PRELIMINARIES</u></p> <p><u>GENERALLY</u></p> <p>A The Conditions of Contract used are the Public Sector Standard Conditions of Contract for Construction Works 2014 (Seventh Edition July 2014) and any subsequent amendments thereto published by the Building and Construction Authority at the time of tender submission.</p> <p>B The priced sections shall be used only for the guidance of the Contractor when tendering, and shall be of no contractual effect, except insofar as such documents may, constitute the Schedule of Rates for the purpose of valuing variations or in assisting in the calculation of interim payments in accordance with clause 32.1 or 32.2 of the Conditions of Contract.</p> <p>C Notwithstanding the type of contract used is the Lump Sum Contract, the Schedule of Rates for Building Works has been prepared in accordance with the Standard Method of Measurement of Building Works (Second Edition 1986) as issued by the Singapore Institute of Surveyors and Valuers (hereinafter referred to as the SMM). Amplification to methods of measurement in the Schedule of Rates for Building Works for the purposes of valuation of variations including those contrary to the SMM are given in the Preambles to Work Sections under the Schedule of Rates for Building Works of these documents. Methods of measurement contrary to the SMM are also given in the Preambles or are inherent in the description of the items concerned.</p> <p>D Allow against the items or in the prices for everything contained in these Sections which has a monetary value. Items which are not priced or have dashes or other like marks inserted in the cash columns will be deemed to be of no value or included elsewhere in the tender. All rates, amounts and/or percentage values in these Sections shall be entered up to two decimal places. In cases where more than two decimal places are entered, only the first two decimals will be used.</p> <p>E The amount appearing as the total of the Final Summary at the end of these Sections and marked "Total Carried to Form of Tender" shall be transferred to the Form of Tender in dollars and cents without any rounding off.</p> <p>F The Contractor is to check that each copy of the documentation is complete in the number of pages and in the reproduction of each page.</p> <p>G No alteration by the Contractor is to be made to the tender documents unless authorised in writing by the Superintending Officer. Any unauthorised alteration made will be ignored and the original text adhered to.</p> <p>H The Contractor's prices and extensions are to be entered in ink that can be clearly reproduced on a copier.</p> <p><u>DESCRIPTION OF THE WORKS</u></p> <p>I The Works comprise:- CONSTRUCTION, COMPLETION AND MAINTENANCE OF PROPOSED ADDITIONS AND ALTERATIONS TO SINGAPORE EXPO EXHIBITION HALL 1 TO 6 ON LOT 09355P & 09356T MK27; EXHIBITION HALL 7 TO 10 ON LOT 10851V PT, 98328L, 07361C, 10187K PT, 07360L PT MK27 AT EXPO DRIVE / UPPER CHANGI ROAD EAST / CHANGI SOUTH AVENUE 1, SINGAPORE</p> <p>J Drawings showing the overall dimensions and sizes relating to the Works are supplied with the tender documents.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>DESCRIPTION OF THE WORKS (Cont'd)</u></p> <p>The Contractor shall study the tender drawings and tender documents and satisfy himself as to the full extent, character and nature of the Works.</p>	
B	<p><u>OPTIONAL WORKS</u></p> <p>The Contractor shall take note of the Optional Works listed and priced for by him in Section 10 - Optional Works which shall not be included in the Contract Sum but shall remain open for the Employer to exercise any of these Optional Works up to the date of issuance of Letter of Acceptance, except for Optional Works for Partial Replacement of Chillers and Cooling Towers which shall be valid up to sixty (60) days from the date of issuance of the Letter of Acceptance. All costs and expenses in relation to the Optional Works are deemed included in the amounts inserted against each item in the Section 10. No claim for additional costs and time and/or loss of profit or additional preliminaries, profit and attendance shall be allowed regardless of the decision by the Employer with regards to the Optional Works.</p>	
C	<p><u>POSSESSION OF THE SITE</u></p> <p>The Contractor will not be given free and uninterrupted possession of the whole of the Site. Possession of the Site will be given in stages subject to the approval of the Employer and/or S.O. and the whole of the Works are to be executed and completed in phases. The Contractor shall refer to the Schedule of Phased Completion of the Works annexed as Appendix TF/B to the Form of Tender for details.</p>	
D	<p>After taking possession of the Site and before commencing work, the Contractor shall inspect the existing buildings and areas likely to be affected by the carrying out of the Works and prepare a Schedule of Conditions of any damaged or apparently defective works which shall be agreed with and lodged with the Superintending Officer ("S.O."). Colour photographs of the affected areas shall be taken as directed and seven (07) sets of A5 prints suitably captioned shall be supplied to the satisfaction of the Superintending Officer. Thereafter, the Contractor shall be responsible for protecting from damages and inclement weathers, repairing any damage caused at his own costs and expenses, keeping the existing building clean and dry and preparing it to receive finishings and other works.</p>	
E	<p>All damages or defects must be reported to the Superintending Officer before commencement of the Works. If any damages or defects are reported after commencement, it shall be made good by the Contractor at his own costs and expenses.</p>	
F	<p><u>PHASED OR PART COMPLETION OF WORKS</u></p> <p>The Works are to be completed in phases or parts. The Contractor is referred to the completion time(s) of the various phases or parts as stipulated in the Appendix to the Conditions under Clause 14.1 set out later in this Sections for details.</p>	
G	<p>The Contractor is to take note of the Schedule of Phased Completion for the Works annexed as Appendix TF/B and Phasing Programme and Event Schedules annexed as Appendix SECT1/G incorporating Singapore EXPO Event Schedule (including block-out dates) and Stand-down Period (no work allowed at all) and to plan and co-ordinate his works accordingly to complete each phases of Works within the stipulated completion time(s) or within any extended completion time(s).</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>PHASED OR PART COMPLETION OF WORKS (Cont'd)</p> <p>The Contractor shall be deemed to have included in his Contract Sum for all costs and expenses to accommodate the individual halls block-out dates and period(s) as identified in Appendix SECT1/G including but not limited to temporary shifting of manpower, plant and equipment, if necessary. No claim for any extension of time and any cost implications arising there of shall be entertained arising out of the above.</p> <p>B If the Contractor fails to complete each phases of Works within the stipulated completion time(s) or within any extended completion time(s) fixed in accordance with the Conditions of Contract, the Contractor shall be liable to pay the Employer Liquidated Damages for each day of the respective phases that remains incomplete.</p> <p>C The Contractor shall include in his tender for any costs and expenses in respect of availability or lack of access, working space, obstructions and any other limitations imposed by the Site being given in stages.</p> <p>SITE AND ACCESS</p> <p>D The Site of the Works is situated at EXPO DRIVE / UPPER CHANGI ROAD EAST / CHANGI SOUTH AVENUE 1, SINGAPORE</p> <p>E The actual confines of the Site are shown on the Architect's Drawings ref: A-101.</p> <p>F Take all reasonable precautions to prevent workpeople, including those employed by sub-contractors, from trespassing on adjoining owner's property or any part of the Site not affected by the Works. If the Contractor wishes to erect scaffolding, staging and barricades or otherwise make use of adjoining land or its airspace, he shall serve notices, obtain permissions and clear away and make good any damage at his own expense and pay all costs in connection therewith.</p> <p>G Access to the Site is designated as shown on the Architect's Drawings ref: A-1201, A-1201 and A-1203 enclosed in the Tender Drawings.</p> <p>H Allow for forming all necessary and related barriers, protection and any temporary crossovers and other works necessary for entry to the Site, obtaining any wayleaves required and subsequently clearing away and making good all works disturbed or damaged.</p> <p>I The Contractor is advised to visit the Site and fully acquaint himself as to the nature, extent and practicability of the Works. He shall include in his tender for any costs in respect of availability or lack of access, working space, storage accommodation, the nature of the ground, the proximity of adjoining structures and roads, the local regulations regarding the obstruction of public highways and any other limitations imposed by the Site and its surroundings.</p> <p>J After taking possession of the Site and before commencing work, the Contractor shall check the actual levels against those shown on the drawings and in the event of any discrepancy, shall immediately notify the Superintending Officer.</p> <p>K Sand, stone or other building materials obtained from the Site shall become the property of the Contractor who may, subject to the written approval of the Superintending Officer, use them in the Works. Excavations are not to be made or enlarged for the purpose of obtaining such materials.</p> <p>L The Site is not to be used for any purpose other than the execution of this Contract.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>SITE AND ACCESS (Cont'd)</u></p> <p>The Contractor is to take note of the designated area for the site facilities (including for his own use and the Employer's and/or the Consultants' use) as demarcated in the Hoarding Plans by the Architect and strictly comply to such requirement in his site utilisation plan which is to be submitted prior to commencement of the Works to Superintending Officer for his review and approval. The Contractor shall allow for all costs and expenses in connection therewith.</p> <p><u>EXISTING STRUCTURES AND BUILDINGS</u></p> <p>After taking possession of the Site and before commencing work, the Contractor shall carry out a comprehensive physical survey of the existing structures and buildings on Site.</p> <p>Provisions shall be made for adequate shoring, strutting and bracing designed by the Contractor's Professional Engineer of any part or parts of the structures and buildings to prevent it from becoming unsafe and/or unstable.</p> <p>The Contractor shall be responsible for the full protection and stability of the existing structures and buildings whether or not they are to be subsequently demolished, to remain or otherwise. Should the Ministry of Manpower (MOM) order a total or partial stoppage of work due to safety violations, the Contractor shall not be entitled to any claim for additional payment or compensation and no extension of time for completion shall be given in respect of any delay so caused.</p> <p>The Contractor shall ensure a safe working environment on the Site at all times. All safety provisions shall be properly maintained to the satisfaction of the Superintending Officer.</p> <p><u>HEIGHT CONTROL ON CONSTRUCTION EQUIPMENT AND TEMPORARY STRUCTURES</u></p> <p>The Site is situated at a location with requirements for very stringent height control on construction equipment and temporary structures imposed by the Urban Redevelopment Authority (URA) for permission being granted to the Employer for the carrying out of the Development and the Contractor shall take particular note and comply with (but not be limited to) the following conditions:</p> <p>(1) The height of each and every of the building in the development is not to exceed 49.0m AMSL, inclusive of all structures and fixtures above the rooftop, such as antennae, water tanks, lift motor rooms, maintenance equipment, lightning conductors, etc.</p> <p>(2) All construction equipment and temporary structures during the construction period including cranes, piling rigs, etc. are also subject to the maximum height limit of 49.0m AMSL.</p> <p>(3) Any erection of cranes, piling rigs, etc. above 49.0m AMSL, separate approval must be sought by the Contractor from RSAF's Air Plans Department - HQ RSAF, MINDEF Building, Gombak Drive, Singapore 669638 (Telephone No. : 6768 3574 and Fax No. : 6769 8792). The Contractor is to ensure that clearance for crane operation is obtained from the RSAF via fax or other expedient means at least 20 days prior to the commencement of any of the Works. He shall also ensure that the cranes must be obstruction marked and/or lighted in accordance with ICAO (International Civil Aviation Organization) Annex 14. For this separate approval purpose he shall provide the following information:</p> <p>(a) Exact location with co-ordinates (LATITUDE and LONGITUDE) of the crane(s) is/are to be indicated on a 1:10,000 or 1:25,000 scale road map.</p> <p>(b) The maximum height of the crane(s) in metre above mean sea level.</p> <p>(c) The period during which such crane(s) will be erected.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>HEIGHT CONTROL ON CONSTRUCTION EQUIPMENT AND TEMPORARY STRUCTURES (Cont'd)</u></p> <p>The Contractor shall plan for and provide all necessary and suitable equipment (including all cranes, piling rigs, etc.) and temporary structures including planning and implementing correct and suitable methods of construction so as to comply with the Urban Redevelopment Authority's and other relevant Authorities' requirements for stringent height control on construction equipment and temporary structures imposed on the Employer for the permission granted for carrying out the development at the Site. He shall indemnify the Employer from any loss and additional expense incurred and claims arising from the Authorities' requirements for height control on construction equipment and temporary structures. He shall also not be entitled to any claim for extension of time, payment or compensation in the event that there is any delay caused due to suspension of his carrying out of the Works by the Authorities, as a result of his non-compliance with the URA's and other Authorities' requirements or for whatsoever reasons.</p> <p>B The Contractor shall include in his tender for all cost in respective of technical height control or other limitation imposed in connection therewith.</p>	
C	<u>MATERIALS WITH ASBESTOS CONTENT (INSOFAR WHERE APPLICABLE)</u>	
D	<p>An asbestos survey shall be conducted by a competent person (as defined under the Asbestos Regulations) to determine:-</p> <p>(a) if there is any asbestos-containing material present in building(s) prior to demolition, addition, alteration or repairs; and</p> <p>(b) if there is any asbestos present in any specified material as defined in the Asbestos Regulations.</p>	
E	Before any demolition of a building is to be carried out, all asbestos and asbestos-containing materials shall be removed by an Approved Asbestos-Removal Contractor ("AARC") to be engaged by the Contractor.	
F	All asbestos removal work shall only be carried out by an AARC who shall engage a competent person (as defined under the Asbestos Regulations) to establish an asbestos-removal plan of work and to supervise the asbestos removal work.	
G	The Contractor shall take measure to minimise asbestos release during works involving asbestos, and to prevent the spread of asbestos beyond the works area. Measures to be taken shall include wetting of asbestos-containing material and providing exhaust ventilation to maintain a negative pressure within the works area i.e. contaminated air shall be removed from the works area and filtered before being discharged into the surrounding area.	
H	<p>The Contractor shall :-</p> <p>(i) ensure that all person carrying out the works involving asbestos must be adequately trained and provided with appropriate personal protection equipment;</p> <p>(ii) provide adequate facilities to decontaminate persons and materials that may be contaminated with asbestos; and</p> <p>(iii) ensure proper disposal of asbestos waste.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>MATERIALS WITH ASBESTOS CONTENT (INSOFAR WHERE APPLICABLE)</u> (Cont'd)	
A	The Contractor shall indemnify the Employer in respect of any fine or other penalty that is imposed on the Employer arising from any offence or breach of safety and health under the Asbestos Regulations.	
B	Allow for all time, costs and expenses in connection therewith.	
	<u>SOIL INVESTIGATION</u>	
C	A soil investigation containing information about the level of the water table has been carried out. The report is made available in good faith and no responsibility is taken by the Employer for its accuracy or application over the whole Site. The conditions revealed are therefore to be taken as a guide only. It is at the risk of the Contractor if different conditions are actually encountered. The report is contained in these documents annexed as Appendix SECT1/C.	
D	The Contractor must ascertain for himself the accuracy of the report and shall be deemed to have made his own independent assessment of the soil and other ground conditions and carry out such further soil investigations, at his own cost, as he deems necessary prior to submission of the tender. No claims will be allowed on the grounds of ignorance of or unexpected conditions upon which the Works are to be carried out.	
E	Arrangements for access to the Site to carry out soil investigations shall be made with the Superintending Officer.	
	<u>DIRECT CONTRACTS</u>	
F	Direct Contractors as listed in Appendix SECT1/J will be carrying out and completing their respective specialist items and works under separate contractual arrangements with the Employer.	
G	The Contractor shall be responsible for inquiring into the nature, scope, scheduling and all requirements of the works of the Direct Contractors and allow for any impact which these may have on the carrying out of the Works of this Contract.	
H	The Direct Contractors are independent contractors and/or vendors and/or suppliers directly engaged by the Employer and/or the Venue Operator and the Employer and/or the Venue Operator shall not be held in any way responsible for their acts or omissions. For avoidance of doubts, the acts or omissions of any Direct Contractors shall not be construed as acts of prevention by the Employer and/or the Venue Operator for the purpose of this Contract and the Contractor shall not be entitled to proceed against the Employer and/or the Venue Operator for any damage, loss or expense arising from any effect which the works of the Direct Contracts may have on the Works of this Contract. The Contractor agrees to save the Employer harmless from any dispute, suit, or action between the Contractor and the Direct Contractors.	
I	Such handing over of part or parts of the Works will not constitute phased or part completion within the meaning of Clause 17.3 of the Conditions of Contract. This is to say that such possession will not involve the issue of a Certificate of Substantial Completion nor will it relieve the Contractor of any of his obligations with regard to liquidated damages for delay, defects liability and insurance of the Works. These matters will depend upon the issuing of an appropriate Certificate of Substantial Completion for the Works.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	DIRECT CONTRACTS (Cont'd) The Contractor shall interface, programme and organize his Work and liaise closely with all Direct Contractors and afford whatever assistance and access that may be necessary to ensure the satisfactory and timely sequencing and completion of all Works on the Site.	
B	The Contractor is referred to Section 2 for details of attendance and facilities to be provided in respect of Direct Contractors and to price herein for such attendance and facilities.	
C	SURROUNDING STRUCTURES AND NEIGHBOURING PROPERTIES The Contractor shall ensure that no damage is caused to the surrounding structures and neighbouring properties.	
D	Before the commencement of any piling, excavation and/or basement construction works, the Contractor shall undertake a comprehensive pre-construction survey of any surrounding land, structures, neighbouring properties, services and the like. The survey shall comprise the following: <ul style="list-style-type: none">- Site layout plan indicating clearly the proposed site and the neighbouring properties;- Structural and foundation system and the condition of the neighbouring properties;- Distances of neighbouring properties to the respective nearest pile and/or edge of excavation area;- Records of defects;- Extent of cracks;- Presence of vaults and underground structures; and- Location of services.	
E	The survey report shall include colour photographs of 305 x 203mm size prints affixed in albums, dated and suitably captioned. Six (6) sets each of the survey report and photograph album in hardcopy and CD-ROM shall be supplied to the Superintending Officer.	
F	The Contractor shall extend a copy of the relevant portion of the survey report to each respective owner of the neighbouring properties. A copy of the complete survey report must also be kept on Site at all times.	
G	Allow for providing tell-tale signs or other suitable approved means including all instruments and equipment for the periodical recording and checking of cracks in the neighbouring properties, surrounding land, structures, services and the like.	
H	The Contractor shall be solely responsible for ensuring that the execution of the Works does not impair the safety and stability of any surrounding structures and neighbouring properties and where necessary allow in his tender for any shoring and strutting required. Such shoring shall be so positioned or altered and adapted from time to time to maintain adequate working space for construction.	
I	SINGAPORE EXPO HOUSE RULES AND REGULATIONS The Contractor shall take note of the House Rules and Regulations as imposed by the Employer and the Singapore EXPO Operator and annexed hereto as Appendix SECT1/H. The Contractor shall comply fully with them and any other rules/restrictions as and when may be imposed by the Employer from time to time. Allowance shall be made here for any cost incurred for complying with the requirements. No claims whatsoever for the cost or time consequent upon the Contractor's failure to comply with this clause shall be entertained by the Employer.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	<p>SINGAPORE EXPO HOUSE RULES AND REGULATIONS (Cont'd)</p> <p>In the event the Contractor is liable to pay any penalty charges due to infringement with the House Rules, the Singapore EXPO Operator, SingEx Venues Pte Ltd shall bill and issue the invoice directly to the Contractor. If the Contractor fails to make payment to the Operator within the time as stipulated in the House Rules, the Employer is entitled to deduct such charges from monies due to the Contractor.</p> <p>RESTRICTIONS ON WORKS</p> <p>The Contractor shall comply with the requirements with regards to the restrictions on the Site. The Contractor's attentions is particularly drawn to the fact that Singapore EXPO shall remain in operation throughout the whole period of the Contract. The Contractor is to note that Singapore EXPO operates all year round and in this respect, the Contractor shall exercise greatest care and take all the adequate precautions to minimize the amount of noise, vibrations, dust, rubbish and the like. The Contractor shall carry out the Works with utmost care to ensure minimal disruption to the activities at Singapore EXPO and shall co-ordinate and carry out the Works in an orderly manner to ensure no accident or injury and minimal inconvenience to tenants, customers and/or users of Singapore EXPO.</p> <p>The Contractor shall stop work if in the opinion of the Superintending Officer the Contractor's work is causing too much disturbance and is seriously affecting the occupants of the whole building as well as proper functioning and operation of the Singapore EXPO. The Contractor may then be required to re-schedule such work in accordance with the Superintending Officer's instruction.</p> <p>All works shall be programmed so as to minimize interruption of the existing services in the Building. At least 72 hours' notice must be given to the Superintending Officer before carrying out work which will seriously affect the operations of the Site.</p> <p>For any shut-down and/or diversions of any permanent services to facilitate the Works, the Superintending Officer and the Employer must be notified as early as possible and it shall be subject to the Superintending's Officer review and approval before any shut down or diversions. The Contractor shall indicate the indicative time to carry out any of the above works in the Programme to be submitted after acceptance of his tender. There shall not be any claims for any time and cost implications arising out of the above.</p> <p>The Contractor shall particularly note that there are existing tenants in full business operations and within at the premises of Singapore Expo during the Contract Period. The Contractor shall carry out all Works within or around the buildings in an orderly and satisfactory manner so as to cause minimum noise, nuisance and disturbance to the tenants, tenants' customers, other users of the buildings and the general public.</p> <p>The Contractor is to ensure that the construction of all temporary works and/or parts of permanent works to alleviate all necessary and related disruptions to the existing tenants including removal of all temporary works, reinstatement of permanent works and making good of all Works affected shall not obstruct the circulation of the users or public to or within the buildings. The Superintending Officer has the right to instruct the Contractor to remove any of his temporary works obstructing the users/public access at the costs and expenses of the Contractor; without any claims of any time and costs implications from the Contractor.</p>	

PRELIMINARIES

Item	Description	Amount S\$
	<u>RESTRICTIONS ON WORKS (Cont'd)</u>	
A	The Contractor shall protect the existing works, finishes and services installations in all common areas such as doors, wall tiles, floor tiles, lifts and wall coverings from damage and prevent entry of debris, rubbish and superfluous material. Should any part of the existing works, common areas and services installations be in any way damaged as a result of the Contractor's work activities, the Contractor shall make good any such damage caused at his own costs and expenses to the satisfaction of the Superintending Officer without any additional of extention of time.	
B	The Contractor shall provide all necessary safety provision during the Works at SUTD Pedestrian Access and all various areas. The Contractor shall also maintain taxi stand operations at all times after award of the Contract.	
C	The Contractor shall provide tuning and aligning works to all movable wall panels affected by and after ceiling board replacement works. In general, should any part of the existing works, common areas and service installations be in any way damaged as a result of the Contractor's work activities, the Contractor shall make good any such damage caused at his own costs and expenses to the satisfaction of the Superintending Officer without any additional of extension of time.	
D	Allow here for all costs and expenses in complying with these requirements.	
	<u>EXISTING AS-BUILT DRAWINGS</u>	
E	Existing as-built drawings (including any dotted lines depicting existing Works to be demolished as shown in the Tender Drawings) are in most cases approximate only and for guidance only and no responsibility is taken by the Employer for its accuracy.	
F	The Contractor shall be deemed to have made its own independent checking of the existing site condition, at its own costs and expenses, prior to submission of the Tender.	
G	No claims whatsoever will be allowed on the ground of ignorance of or unexpected conditions or any discrepancy between the existing as-built drawings and the existing site condition.	
	<u>LAW GOVERNING CONTRACT</u>	
H	The Contract shall be governed by the laws for the time being in force in Singapore and the Singapore Courts shall have exclusive jurisdiction (subject to Clause 34 of the Contract Conditions) to hear and determine all actions and proceedings arising out of the Contract.	
	<u>CONDITIONS OF CONTRACT</u>	
I	<p>The Conditions of Contract comprise :</p> <p>(1) The Public Sector Standard Conditions of Contract for Construction Works 2014 (Seventh Edition July 2014) and any subsequent amendments thereto published by the Building and Construction Authority at the time of tender submission; and</p> <p>(2) The Particular Conditions which include amendments and additions to the Standard Conditions of Contract.</p> <p>The Particular Conditions shall be regarded as part of and shall be included in the definition of "Contract" specified in Clause 1.1 of the Standard Conditions of Contract. The Contractor shall note that although the Public Sector Standard Conditions of Contract for Construction Works 2014 (Seventh Edition July 2014) is not issued together with this Tender Documents, it shall nevertheless be incorporated to form part of the Contract.</p>	
	To Collection	

Item	Description	Amount S\$
A	<u>CONDITIONS OF CONTRACT (Cont'd)</u> The Contract shall be executed under hand.	
B	The prices in these Sections will be deemed to cover the cost of complying with the clauses contained therein. The clause numbers and headings of the Standard Conditions of Contract and the Particular Conditions are as follows:- <u>Conditions of Contract</u>	
C	Clause 1. Definitions and Interpretation	
D	Clause 2. Superintending Officer and Superintending Officer's Representative	
E	Clause 3. Contract Documents	
F	Clause 4. General Obligations of the Contractor	
G	Clause 5. Sub-Surface and Ground Conditions	
H	Clause 6. Permanent Works Designed by the Contractor	
I	Clause 7. Notices and Fees	
J	Clause 8. Setting Out	
K	Clause 9. Programme for the Works	
L	Clause 10. Quality in Construction	
M	Clause 11. Administration	
N	Clause 12. Possession of Site and Commencement of Works	
O	Clause 13. Suspension	
P	Clause 14. Time for Completion	
Q	Clause 15. Expediting Progress of Works	
R	Clause 16. Liquidated Damages	
S	Clause 17. Substantial Completion	
T	Clause 18. Defects	
U	Clause 19. Variations to the Works	
V	Clause 20. Valuation of Variations	
W	Clause 21. Measurement	
X	Clause 22. Claims for Loss and Expense	
Y	Clause 23. Procedure for Claims	
Z	Clause 24. Construction Equipment, Temporary Works, Materials and Goods	
AA	Clause 25. General Responsibilities	To be priced in Final Summary
AB	Clause 26. Indemnity Provisions	
AC	Clause 27. Insurance for Personal Injury, Work Injury Compensation and Property Damage	
AD	Clause 28. Insurance of the Works	To be priced in Final Summary
AE	Clause 29. Damage to Property of Employer or Government	
AF	Clause 30. Assignment and Subcontracting	
AG	Clause 31. Termination by the Employer	
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<u>CONDITIONS OF CONTRACT (Cont'd)</u> Conditions of Contract (Cont'd) A Clause 32. Progress Payments and Final Account B Clause 33. Fluctuations C Clause 34. Final Completion Certificate D Clause 35. Settlement of Disputes E Clause 36. Recovery by the Employer F Clause 37. Governing Law and Notices PARTICULAR CONDITIONS Conditions of Contract G Clause 1 - Definitions and Interpretations H Clause 3 - Contract Documents I Clause 4 - General Obligations of the Contractor J Clause 5 - Sub-surface and Ground Conditions K Clause 6 - Permanent Works Designed by the Contractor L Clause 6A - Intellectual Property M Clause 7 - Notices and Fees N Clause 8 - Setting Out O Clause 14 - Time for Completion P Clause 17 - Substantial Completion Q Clause 19 - Variations to the Works R Clause 22 - Claims for Loss and Expense S Clause 25 - General Responsibilities T Clause 31 - Termination by the Employer U Clause 33 - Fluctuations V Clause 39 - Confidentiality W Clause 40 - Waiver X Clause 41 - Severability Y Option Module A Z Option Module B AA Option Module C	
	APPENDIX TO THE CONDITIONS OF CONTRACT The Appendix to the Conditions shall be completed as follows:- AB Clause 1.1 (c) Option Modules : Only Option Module C shall be applicable where instructed by the S.O. AC Clause 1.1 (m) Employer : SINGAPORE TOURISM BOARD AD Clause 2.1 Limitations on the authority of the Superintending Officer : None.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>APPENDIX TO THE CONDITIONS OF CONTRACT (Cont'd)</u>	
A	<p>The Appendix to the Conditions shall be completed as follows:- (Cont'd)</p> <p>Clause 4.5 (1) Security Deposit : Five (5) % of the Contract Sum entered in Clause 4 of the Agreement. (50% of the Security Deposit to be released upon issuance of the Certificate of Substantial Completion and the balance 50% of the Security Deposit to be released within 30 days after the expiry of the DLP or as soon as all the identified defects which the Contractor is liable to make good under the Contract have been made good by him, whichever is the later)</p>	
B	<p>Clause 14.1 Time for Completion : Whole of the Works - Not applicable Phase or Part of the Works - Applicable</p> <p>Phase 1 (Hall 3 and Hall 4) - 122 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p> <p>Phase 2 (Hall 5, Hall 6 and Foyer 2) - 120 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p> <p>Phase 3 (Hall 7, Hall 8, Hall 9, Hall 10 and Pedestrian Linkway) - 142 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p> <p>Phase 4 (Hall 1 and Hall 2) - 121 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p> <p>Phase 5 (Foyer 1 and Convention Centre) - 92 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p> <p>Phase 6 (Area 4 - Foyer 1 Coach Bay) - 212 calendar days from the date of Site Possession of each Phase in accordance with the Conditions of Contract</p>	
C	<p>Clause 16.1 Liquidated Damages : Whole of the Works - Not applicable Phase or Part of the Works - Applicable</p> <p>Phase 1 (Hall 3 and Hall 4) - At the rate of \$20,000.00 per calendar day Phase 2 (Hall 5, Hall 6 and Foyer 2) - At the rate of \$23,000.00 per calendar day Phase 3 (Hall 7, Hall 8, Hall 9, Hall 10 and Pedestrian Linkway) - At the rate of \$16,500.00 per calendar day Phase 4 (Hall 1 and Hall 2) - At the rate of \$17,000.00 per calendar day Phase 5 (Foyer 1 and Convention Centre) - At the rate of \$8,500.00 per calendar day Phase 6 (Area 4 - Foyer 1 Coach Bay) - At the rate of \$1,000.00 per calendar day</p>	
D	Clause 18.1 Defects Liability Period (12 months if none stated) : 12 months.	
E	Clause 27.1 (1) (b) Limitations on extent of liability for any one accident :\$5,000,000.00 any one claim.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>APPENDIX TO THE CONDITIONS OF CONTRACT (Cont'd)</u></p> <p>The Appendix to the Conditions shall be completed as follows:- (Cont'd)</p> <p>Clause 28.1 (1) Percentage of professional fees : 10%.</p>	To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<u>APPENDIX TO THE CONDITIONS OF CONTRACT (Cont'd)</u> The Appendix to the Conditions shall be completed as follows:- (Cont'd) A Clause 32.6 Period for honouring Certificate (21 days if none stated) : 30 days. B Clause 32.6 Rate of interest upon unpaid sums : 5 percent. C Clause 33.1 Specified Materials : Concrete Steel Reinforcements Tender Closing Month : February 2017 Base Unit Rate of Materials (to be filled in by bidders)* Concrete \$...../m ³ Steel Reinforcements \$...../tonne D Particular Conditions Clause 4.5A(1) Revised Sum : 2.5% of the Contract Sum entered in Clause 4 of the Agreement.	
	<u>PARTICULAR CONDITIONS OF SUB-CONTRACT</u> E The Conditions of Sub-Contract to be used for all sub-contracts entered into between the Contractor on the one part and the Nominated Sub-Contractor on the other part will be the Standard Conditions of Nominated Sub-Contract 2008 (Fifth Edition December 2008) and any subsequent amendments thereto published by the Building and Construction Authority at the time of tender submission for use in conjunction with the Public Sector Standard Conditions of Contract for Construction Works. The following Particular Conditions of Sub-Contract shall be incorporated in the Conditions of Sub-Contract: F Clause 1.0 Security Deposit for Sub-Contract G Clause 2.0 Appendix to Conditions of Sub-Contract	
	<u>PROVISIONAL SUMS AND PRIME COST SUMS</u> <u>PROVISIONAL SUMS</u> H The term Provisional Sum shall mean a sum allowed in the Contract Sum for such work to be carried out or materials to be supplied as instructed by the Superintending Officer pursuant to Clause 2.5 of the Conditions of Contract including such work which cannot be defined or described with sufficient precision for pricing purposes at the time when the Contract is made. The Superintending Officer may, pursuant to Clause 2.5 of the Conditions of Contract instruct the Contractor to: (a) carry out the work or supply the materials or components covered by a Provisional Sum or (b) arrange for the work to be carried out by a Nominated Sub-Contractor or for the materials or components to be supplied by a Nominated Supplier.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>PROVISIONAL SUMS AND PRIME COST SUMS (Cont'd)</u>	
	<u>PRIME COST SUMS</u>	
A	The term Prime Cost Sum (or "PC Sum") shall mean a sum provided for work or services to be executed by a Nominated Sub-Contractor or a statutory authority or for materials or goods to be supplied by a Nominated Supplier as provided in Option Module C of the Conditions of Contract. The amount stated as Prime Cost Sum shall be understood to exclude any profit and overheads required by the Contractor. The Contractor shall be deemed to have fully recovered his profit and all overheads on the payment of a sum calculated by the percentage for profit and attendance inserted by the Contractor against the respective Prime Cost Sum.	
B	The Contractor's attention is drawn to the fact that the Superintending Officer may at his discretion, select more than one Nominated Sub-Contractor or Supplier for purpose of carrying out or supplying some of the work or materials which is the subject of a Prime Cost Sum under Section 2. For the avoidance of doubt, no claim for time, profit and attendance and expense shall be brought by the Contractor against the Employer on account that the Contractor is expected to liaise and co-ordinate with more Nominated Sub-Contractors or Suppliers than originally envisioned or for any matters arising out of the aforesaid arrangement.	
	<u>ADJUSTMENTS OF PROVISIONAL SUMS AND PRIME COST SUMS IN THE FINAL ACCOUNT</u>	
C	Provisional Sums will be deducted from the Contract Sum and substituted with the value of any work executed in accordance with the Conditions of Contract.	
D	Prime Cost Sums will be adjusted in accordance with the Conditions of Contract allowing pro-rata for profit and attendance where applicable at the rate shown in the Sections.	
	<u>GENERAL ATTENDANCE ON NOMINATED SUB-CONTRACTORS AND DIRECT CONTRACTORS</u>	
E	The general roles and responsibilities of the Contractor in respect of the Main Contract Works as listed in this Section shall remain applicable regardless of the Prime Cost Items and Optional Works Items and these shall be deemed to have been allowed by the Contractor in his Contract Sum.	
F	(1) Free and full use of standing scaffolding, staging and the like.	
G	(2) Free use of messrooms, modern sanitary accommodation and other welfare facilities.	
H	(3) Provision of space for the sub-contractor to build office accommodation and stores.	
I	(4) Provision of working space.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>GENERAL ATTENDANCE ON NOMINATED SUB-CONTRACTORS AND DIRECT CONTRACTORS (Cont'd)</u>	
A	(5) Provision of hoisting facilities. The Contractor is advised to check at the Superintending Officer's office all specifications and drawings for all sub-contracts in order to ascertain the quantities and weights of all materials and equipment as well as their proposed locations. The Contractor shall also check with the Superintending Officer the designated areas in the building which have been designed for the purpose of hoisting equipment. The Contractor shall be responsible for the hoisting of all sub-contractors' materials and equipment to all plantrooms, sub-stations, motor rooms, AHU rooms, etc. at various levels and shall be fully responsible for any damage or loss that may occur. However, lift cars and escalators shall be hoisted by the sub-contractor through the respective hoistways and openings.	
B	(6) Provision of artificial lighting and temporary electricity supplies including power for testing and commissioning of air conditioning and ventilation, lifts and electrical installation which will be from the permanent installations. The respective sub-contractors shall supply generators for their welding work. The Contractor shall terminate supplies at 30 amp. TPN isolators and 13 amp. SPN socket outlets and the numbers and locations shall be decided on site by the Superintending Officer. The sub-contractor shall be responsible for all necessary wiring, connections, etc. to the actual points of execution of the sub-contract works.	
C	(7) Where applicable, Provision of water for the sub-contract works including water required for testing and commissioning of the air conditioning, fire protection and plumbing installations which will be from the permanent installations. The sub-contractor will be responsible for providing hoses to the water supply points provided by the Contractor at each floor.	
D	(8) Provision of chilled water required for testing and commissioning of the air conditioning system which will be from the permanent installations.	
E	(9) Removal of rubbish from locations on each floor, designated by the Contractor to the sub-contractor, including final removal from Site.	
F	(10) Full responsibility for loss or damage to all materials or goods on Site for the sub-contract works.	
G	(11) Securing the building and building works in such a manner that sub-contract works in progress are not subject to damage by construction activity such as falling debris or water seepage.	
H	(12) Protecting, casing up and accepting full responsibility for loss or damage to the sub-contract works which have been fully, finally and properly incorporated into the Works.	
I	(13) Additional costs incurred due to the sub-contractors working different hours from the extended hours to those worked by the Contractor.	
J	(14) Provision of all setting out and survey information including giving all necessary dimensions and taking responsibility for their accuracy.	
K	(15) Programming, co-ordinating and organising the sub-contractor's work to ensure the correct timing, sequencing and completion of all operations including preparing co-ordinated working drawings of all services.	
L	(16) Ascertaining all particulars relating to the sub-contract works in regard to sizes and positions of chases, holes, mortices and the like which are to be formed or left in the structure.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>GENERAL ATTENDANCE ON NOMINATED SUB-CONTRACTORS AND DIRECT CONTRACTORS (Cont'd)</u>	
A	(17) Cutting and forming holes, recesses, etc. for ductwork, pipes, conduits and fittings through walls, floors, ceilings, roofs, etc. and making good after the sub-contract works are sufficiently advanced. Cutting holes through false ceilings and special partitions shall be by the respective specialist contractors. The sub-contractor shall be responsible for chasing of walls and floors for pipes, conduits and fittings but making good shall be by the Contractor.	
B	(18) Filling, grouting and making good under lift shaft entrance sills, around lift doorways and casings for buttons and indicators, etc.	
C	(19) Building-in or casting-in to the structure and/or welding/fixing (in the case of steel framed structures) inserts, angles, plates, bolts, sleeves for pipes, ducts, trunking, guide rails, equipment, curtain walling, cladding, suspension systems and the like. The sub-contractor shall provide the inserts, bolts, sleeves, etc. and will mark on Site and locate for the Contractor the correct position for these fittings. Sealing between the sleeve and the pipe, duct, trunking, etc. shall be executed by the sub-contractor whereas sealing between the sleeve and building structure (i.e. floors, walls, etc.) will be by the Contractor.	
D	(20) Marking the locations of any prestressing cables on the soffit of structural floors, face of walls, etc.	
E	All provisions herein shall be read in conjunction with Section 2.	
	<u>SPECIAL ATTENDANCE ON NOMINATED SUB-CONTRACTORS AND DIRECT CONTRACTORS FOR EXISTING WORK</u>	
F	(1) Obtaining from the sub-contractor a schedule of all holes, recesses, openings, etc. which are required to be cut through existing walls, floors, ceilings, roofs, etc.	
G	(2) Cutting or coring holes, recesses, openings, etc. for ductwork, pipes, conduits and fittings through existing walls, floors, ceilings, roofs, etc. and subsequently making good (including waterproofing openings in 'wet' areas like roof slabs) after the sub-contract works are sufficiently advanced. Cutting holes through false ceilings and special partitions shall be by the respective specialist contractors. Taking down and replacing existing false ceilings affected by the works and all making good shall be by the Contractor. The sub-contractor shall be responsible for chasing of walls and floors for pipes, conduits and fittings but making good shall be by the Contractor.	
H	(3) Building-in to the existing structure and/or welding/fixing (in the case of steel framed structures) inserts, bolts, sleeves for pipes, ducts, trunking, guard rails, equipment, curtain walling, cladding, suspension systems and the like. The sub-contractor will provide the inserts, bolts, sleeves, etc. and will mark on Site and locate for the Contractor the correct position for these fittings. Sealing between the sleeve and the pipe, duct, trunking, etc. will be executed by the sub-contractor whereas sealing between the sleeve and building structure i.e. floors, walls, roofs, etc. will be by the Contractor. All sealing shall comply with the fire rating as required by the Fire Code and shall maintain the integrity of the fire compartmentation shown on the architectural drawings.	
I	All provisions herein shall be read in conjunction with Section 2.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>RESPONSIBILITIES OF CONTRACTOR</u></p> <p>A (1) The formation of concrete bases, plinths, inertia blocks, etc. for plant and equipment, door louvres, exhaust discharge (external) grilles and fresh air intake louvres, unless otherwise stated in the specification or drawings.</p> <p>B (2) The building of manholes, pits and trenches for cables, pipes, ducts, etc. including floor wastes unless otherwise stated in the specification or drawings and with the exception of the Plumbing and Sanitary Installation Sub-Contract.</p> <p>C (3) The provision of all separator beams, sheave beams and hoisting beams (in lift motor rooms) for the Lift Installation.</p> <p>D (4) Filling up and sealing the existing test pits and earth pits for the old lightning protection system with materials approved by the Superintending Officer.</p> <p>E (5) The Contractor shall reinstate all necessary builder's works affected arising out of carrying out of the MEP Works.</p> <p>F All provisions herein shall be read in conjunction with Section 2.</p>	
	<p><u>RESPONSIBILITIES OF NOMINATED SUB-CONTRACTOR AND DIRECT CONTRACTORS</u></p> <p>G (1) Unloading, getting in, storing and all handling and lifting to a convenient location their materials, plant, tools, etc. for hoisting by the Contractor. When the materials, plant, tools, etc. have been hoisted to the nearest level possible with the hoisting facilities by the Contractor, it shall be the responsibility of the sub-contractor to lift or move them to the required positions using his own facilities. The sub-contractor for lift cars and escalators shall be responsible for hoisting same through the respective hoistways and openings.</p> <p>H (2) The provision, erection, maintenance and removal of all their temporary office and storage accommodation.</p> <p>I (3) Connections to temporary power supplies made available by the Contractor. Supplying and running distribution cables, leads and electrical equipment required.</p> <p>J (4) The provision of plant, equipment and generators for welding work.</p> <p>K (5) The provision of hoses to water supply points made available by the Contractor at each floor.</p> <p>L (6) The provision, erection and removal of special scaffolding, lifting and hoisting facilities exceeding those made available and/or to the areas not provided by the Contractor including altering and adapting from time to time as necessary.</p> <p>M (7) Depositing all rubbish, crates, drums, etc. at positions on each floor to be indicated by the Contractor.</p> <p>N (8) Full responsibility for loss or damage to their plant, tools, equipment and other property on the Site.</p> <p>O (9) Protection and casing up of the sub-contract works until such works have been properly completed and incorporated into the Works.</p> <p>P (10) Chasing of walls and floors for pipes, conduits and fittings (making good by Contractor). The painting of pipes, conduits and equipment.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>RESPONSIBILITIES OF NOMINATED SUB-CONTRACTOR AND DIRECT CONTRACTORS (Cont'd)</u>	
A	(11) Setting out and marking on Site as and when requested by the Contractor as the Works proceed, the location of all inserts, angles, plates, bolts, sleeves for pipes, ducts, trunking, guide rails, equipment, curtain walling, cladding, suspension systems and like, for building-in or casting-in to the structure and/or welding/fixing (in the case of steel framed structures).	
B	(12) The provision of inserts, bolts, sleeves, etc. Sealing between sleeves built-in by the Contractor and the pipe, duct, trunking, etc. using materials and methods of suitable fire rating and to the approval of the Building Authority, Superintending Officer and Engineer.	
C	(13) In cases where the Contractor has requested of the sub-contractor's information on the size and location of holes, recesses, openings, etc. to be formed in floors, walls and other parts of the structure and the sub-contractor fails to give such information in due time for provision to be made at the time of construction, then the sub-contractor shall be responsible to the Contractor for the cost of cutting and making good holes, recesses, openings, etc. so required.	
D	(14) The construction of manholes, pits and trenches in the case of the Plumbing and Sanitary Installation Sub-Contract.	
E	(15) Additional facilities and attendance required by the Sub-Contractor which are not afforded by the Contract under the Contract.	
F	All provisions herein shall be read in conjunction with Section 2.	
	<u>SPECIAL RESPONSIBILITIES OF NOMINATED SUB-CONTRACTORS AND DIRECT CONTRACTORS FOR EXISTING WORK</u>	
G	(1) Chasing of existing walls and floors for pipes, conduits and fittings (making good by Contractor). The painting of pipes, conduits and equipment.	
H	(2) Provision of a schedule to the Contractor of all holes and openings required to be cut through existing walls, floors, ceilings, roofs, etc. If the sub-contractor fails to give such information in due time for provision to be made at the time of construction, then the sub-contractor shall be responsible to the Contractor for any additional cost arising from any out-of-sequence works, etc. for cutting/coring such openings.	
I	(3) Cutting holes through false ceilings and special partitions. Taking down and replacing false ceilings and all making good shall be by the Contractor.	
J	All provisions herein shall be read in conjunction with Section 2.	
	<u>INSURANCES</u>	
K	Without limiting the obligations and responsibilities of the Contractor under Clauses 27 and 28 of the Conditions of Contract, the Contractor shall effect a Work Injury Compensation Policy and a Contractors' All Risk Policy with an insurance company or insurance companies approved by the Superintending Officer.	
L	The Contractor shall submit the proposed name of the insurance company or insurance companies for consideration of the Superintending Officer at the time of submission of this tender.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<u>INSURANCES (Cont'd)</u> All insurance policies shall be in the joint names of the Employer, Contractor and sub-contractors of any tier. Other than in respect of Work Injury Compensation insurance, the insured Employer, Contractor and sub-contractors shall include their respective directors, officers and employees. The policies shall begin before commencement of any work under the Contract until 14 days after the Date of Substantial Completion certified by the Superintending Officer plus the twelve (12) months Defects Liability Period.	
B	The Contractors' All Risks policy shall include Consultants and their authorised representatives as insured parties in respect of their site activities only.	
C	The Work Injury Compensation policy shall cover the Contractor and/or all sub-contractors (including designated or nominated sub-contractors) of any tier for their legal liability, whether under the Work Injury Compensation Act or at common law, for death, illness or injury of employees arising in the course of their employment in connection with the carrying out of the Works. The policy shall also cover the Employer's vicarious liability for whether under the Work Injury Compensation Act or at common law, for death, illness or injury of employees of the Contractor and/or all sub-contractor of any tier arising in the course of their employment in connection with the carrying out of the Works.	
D	The Contractors' All Risks policy shall provide cover in respect of physical loss or damage to the Contract Works on an "all risks" basis and shall also cover the legal liability of the insured parties for accidental damage to third party property and/or accidental bodily injury to third parties arising from the carrying out of the Contract Works.	
E	The cover for loss or damage to the Contract Works shall be for the full replacement value thereof including all unfixed goods and materials delivered on or adjacent to the Site plus ten (10) percent to cover professional fees and five (5) percent for removal of debris.	
F	The cover for legal liability to third parties for accidental property damage and/or accidental bodily injury shall have a limit of liability of \$5,000,000.00 any one occurrence with the number of occurrences being unlimited for the period of insurance.	
G	The cover under the Contractor's All Risks policy in respect of physical loss or damage shall be extended to include loss or damage to existing property of the Employer caused by the carrying out of the Contract Works on a First Loss basis up to a sum insured of \$10,000,000.00.	
H	The cover for legal liability to third parties for accidental property damage and/or accidental bodily injury shall include a specific extension acknowledging that representatives of the Building and Construction Authority who are on Site for purposes of conducting the assessment in connection with the Construction Quality Assessment System or CONQUAS and also inspectors, auditors and/or other persons exercising their respective duties, functions and powers in compliance with the Workplace Safety and Health Act and/or its Regulations are regarded as third parties under the terms of the insurance policy. The Contractors' All Risks Policy shall be further extended to include the following endorsements:	
I	SECTION I - MATERIAL DAMAGE TO THE WORKS Approved Adjusters	To be priced in Final Summary
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<u>INSURANCES (Cont'd)</u> The Contractors' All Risks Policy shall be further extended to include the following endorsements: (Cont'd) SECTION I - MATERIAL DAMAGE TO THE WORKS (Cont'd)	
A	Strike, Riot and Civil Commotion	To be priced in Final Summary
B	Time Adjustment Clause (72 hours)	To be priced in Final Summary
C	Automatic Reinstatement	To be priced in Final Summary
D	Automatic Extension	To be priced in Final Summary
E	Cessation of Work - minimum 90 days	To be priced in Final Summary
F	Extra Charges for Overtime, Nightwork, Work on Public Holidays and Express Freight	To be priced in Final Summary
G	Professional Fees	To be priced in Final Summary
H	Escalation / Automatic Increase Clause	To be priced in Final Summary
I	Removal of Debris	To be priced in Final Summary
J	Inland Transit including Loading and Unloading	To be priced in Final Summary
K	Offsite Storage / Fabrication	To be priced in Final Summary
L	Airfreight	To be priced in Final Summary
M	Plans and Documents Clause	To be priced in Final Summary
N	Public Authorities Clause	To be priced in Final Summary
O	Claims Preparation Costs	To be priced in Final Summary
P	Free Issue Materials	To be priced in Final Summary
Q	Employees' Personal Effects and Tools	To be priced in Final Summary
R	Designer's Risks	To be priced in Final Summary
S	Extended Maintenance	To be priced in Final Summary
T	Loss Payee	To be priced in Final Summary
U	Works Taken Over or Put in Use	To be priced in Final Summary
V	Testing of Machinery and Installations	To be priced in Final Summary
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<u>INSURANCES (Cont'd)</u> The Contractors' All Risks Policy shall be further extended to include the following endorsements: (Cont'd) SECTION I - MATERIAL DAMAGE TO THE WORKS (Cont'd)	
A	Concealed Damage (Discovery: 6 months)	To be priced in Final Summary
B	Cost of Temporary Protection	To be priced in Final Summary
C	Destruction of Sound Property	To be priced in Final Summary
D	Dismantling and Re-erection Costs	To be priced in Final Summary
E	Expediting Expenses	To be priced in Final Summary
F	Fire Extinguishing Expenses	To be priced in Final Summary
G	Loss Notification Clause	To be priced in Final Summary
H	Loading and Unloading	To be priced in Final Summary
I	Non-Invalidation	To be priced in Final Summary
J	Principal's Existing and Surrounding Property	To be priced in Final Summary
K	Payment on Account	To be priced in Final Summary
L	Preventive Measures	To be priced in Final Summary
M	Temporary Works	To be priced in Final Summary
N	Temporary Repairs	To be priced in Final Summary
O	Underground Services; Cables, Pipes and Other Facilities	To be priced in Final Summary
P	Vibration, Removal or Weakening of Support	To be priced in Final Summary
Q	Waiver of Subrogation	To be priced in Final Summary
	SECTION II - LIABILITY TO THIRD PARTY	
R	Cross Liability	To be priced in Final Summary
S	Jurisdiction Clause	To be priced in Final Summary
T	Non-Negligent Indemnity	To be priced in Final Summary
U	Employer's Liability	To be priced in Final Summary
V	Non-Owned Vehicle Liability	To be priced in Final Summary
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>INSURANCES (Cont'd)</p> <p>Notwithstanding anything contained to the contrary in clause 25.2 of the Conditions of Contract, the Contractor shall extend the third party liability provision to cover any expense, liability, loss, claim or proceedings which the Employer may incur or sustain by reason of damage of any property other than the Works caused by collapse, subsidence, vibration, weakening or removal of support or lowering of ground water arising out of or in the course of or by reason of the carrying out of the Works excepting damage:</p> <ul style="list-style-type: none"> (1) Caused by the negligence, omission or default of the Contractor, his servants or agents or of any sub-contractor, his servants or agents; (2) Attributable to errors or omissions in the designing of the Works; (3) Which can reasonably be foreseen to be inevitable having regards to the nature of the works to be executed or the manner of its execution; (4) Which is the responsibility of the Employer under the provisions of the Contract; (5) Which is recoverable under any other policy of insurance effected for the benefit of the Contractor or Employer; (6) Arising from a nuclear or a war risk. <p>The limit of liability under this extension in respect of all or any occurrence shall not exceed \$5,000,000.00 any one occurrence with the number of occurrences being unlimited for the period of insurance.</p>	To be priced in Final Summary
B	The Contractor shall take out and pay all premiums in respect of the above mentioned insurance policies and any other insurances which he considers to be necessary.	To be priced in Final Summary
C	Any deductibles/excesses that the Contractor elects to carry is a matter between the Contractor and the insurance company issuing the insurance policy/policies and should be allowed for, as required, when pricing the insurances in the Final Summary of the Sections.	To be priced in Final Summary
D	All insurance policies shall be deposited with the Superintending Officer before the commencement of any work on Site. Evidence of the payment of insurance premiums in the form of official receipts must be presented to the Superintending Officer, who on receipt of such evidence, will include the amounts shown on the official receipts or the amounts included for insurances in the Contract Sum whichever is the lesser, in a payment certificate. The balance if any, up to the amounts included in the Contract Sum will be paid in monthly instalments throughout the total Time for Completion.	To be priced in Final Summary
E	The Contractor will be responsible for the premiums in connection with extending the period(s) of insurance cover in the event that the Contractor fails to complete the Works within the Time for Completion/extended Time for Completion fixed in accordance with the Conditions of Contract.	To be priced in Final Summary
F	DRAWINGS The drawings used in the preparation of the Sections are listed in the Appendix S/A of the Tender Documents and shall be the Drawings referred to in the Contract.	
G	Figured or calculated dimensions shall be preferred in all cases to scaled dimensions from drawings.	
H	CONTRACT SPECIFICATIONS Items in the Specification are deemed to amplify and be part of every description of work in the Sections to which they refer.	
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
A	<u>CONTRACT SPECIFICATIONS (Cont'd)</u> The Contractor shall be deemed to have examined the Drawings, Specification and Preambles to Work Sections under the Schedule of Rates for Building Works, and allow here for the cost of compliance with the provisions to the extent that such costs are not included elsewhere in the Contract Documents.	
B	The Contractor shall not be entitled to have any claims whatsoever for any increase in the Contract Sum, or any other compensation or remedies, and/or any extension to the Completion Date by reason of failure to examine all the documents and satisfy himself of the requirements necessary for the proper execution and completion of the Works.	
C	<u>INTERIM PAYMENTS</u> <u>The Reference Schedule</u> For the purpose of clause 32 of the Conditions of Contract, the Contractor shall allow in his price for progress payments to be valued by reference to the items set out in the Reference Schedule for the Valuation of Progress Payments ("the Reference Schedule"). The valuation for each progress payment shall be based on the percentage completed of each of the items set out in the Reference Schedule in a reference month and multiplying the said percentage by the value of the item.	
D	<u>Payment Claim</u> Within 7 days from the end of each calendar month (hereinafter "the reference month"), the Contractor shall deliver to the Employer (with copies to the Superintending Officer) a payment claim in a form which shows a breakdown of the amount claimed by reference to the items as set out in the Reference Schedule. In addition to the requirements set out in clause 32.1(1) of the Conditions of Contract, the payment claim shall also state: (1) Amounts paid previously under the Contract; and (2) The balance arising out of the Contract in respect of the reference month which is due to the Contractor or the Employer, as the case may be.	
E	<u>Prescribed Form</u> The prescribed form of payment claim is shown in Appendix SECT1/F annexed hereto. For the avoidance of doubt the payment claim shall consist of the matters set out in Appendix SECT1/F and that the particulars as required under the Building and Construction Industry Security of Payment Regulations shall be understood to comprise: (1) A breakdown of the value attributable to each item set out in the Reference Schedule; and (2) Details of the percentage completed of each item set out in the Reference Schedule.	
F	Any other materials and information including elaboration of the items identified in the payment claim, additional calculations, photographs, charts and data shall be received as supporting information of the payment claim.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>INTERIM PAYMENTS (Cont'd)</u></p> <p>Draft Payment Claim to be furnished with Supporting Documents</p> <p>A The Contractor shall submit hardcopy of draft payment claim for discussion only with the Superintending Officer and the Quantity Surveyor prior to submitting the actual payment claim complying with the claim procedure specified in the Building and Construction Industry Security of Payment Act. The draft payment claim shall be complete with all the information and particulars specified hereinafter for the actual payment claim. For the avoidance of doubt, the draft payment claim is meant for the sole purpose of discussion and is not to be construed to be an actual payment claim whatsoever pursuant to the claim procedure specified in the Building and Construction Industry Security of Payment Act. The actual payment claim shall be submitted in accordance with the provisions stated hereinafter.</p> <p>B The aforesaid requirement shall be expressly stated in all the draft payment claims submitted by the Contractor.</p> <p>Actual Payment Claim to be furnished with Supporting Documents</p> <p>C The Contractor shall after discussion of the draft payment claim with the Superintending Officer and the Quantity Surveyor submit a hardcopy of the actual payment claim complying with the claim procedure specified in the Building and Construction Industry Security of Payment Act to the Employer and copied to all Consultants.</p> <p>The Contractor shall furnish with each hardcopy of the actual payment claim the following:-</p> <p>D (1) A statement from each nominated sub-contractor or supplier on the amount claimed for the work carried out under the respective nominated sub-contract and supply contract (as the case may be), the amount paid by the Contractor and received by the nominated sub-contractor or supplier (as the case may be) and proof of the aforesaid payment.</p> <p>E (2) A detailed listing of unfixed materials, plant and goods delivered (but not prematurely) to the Site and properly protected against damage or deterioration, together with such description of their identification and location on Site.</p> <p>F Only unfixed materials, plant and goods which are intended for incorporation in the Permanent Works shall qualify for inclusion in the payment claim as unfixed materials on Site. Materials intended for temporary works such as planking and strutting and formwork shall not qualify for progress payment.</p> <p>G The date of receipt of the hardcopy of the payment claim by the Employer shall be recognized as the effective date of the Contractor's service of the actual payment claim pursuant to the claim procedure specified in the Building and Construction Industry Security of Payment Act.</p> <p>Particulars of Tax Invoice</p> <p>Upon receipt of the payment response, the Contractor shall prepare and present to the Employer for payment, a tax invoice made pursuant to the Goods and Services Tax Act (Cap 117A), and this invoice shall contain the following particulars:</p> <p>H (1) Name, address and registration number of the taxable person</p> <p>I (2) Name and address of the recipient</p> <p>J (3) Date of supply as defined in the Goods and Services Tax Act</p> <p>K (4) Description of goods and services supplied as defined in the Goods and Services Tax Act</p>	

To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>INTERIM PAYMENTS (Cont'd)</u></p> <p><u>Particulars of Tax Invoice (Cont'd)</u></p> <p>Upon receipt of the payment response, the Contractor shall prepare and present to the Employer for payment, a tax invoice made pursuant to the Goods and Services Tax Act (Cap 117A), and this invoice shall contain the following particulars: (Cont'd)</p> <p>A (5) Amount payable for the supply of the goods and services and the GST payable (specifying the rate of GST) on such amount</p> <p>B (6) Such other particulars as may be prescribed by the Comptroller of Goods and Services Tax from time to time.</p> <p>C Upon receipt of the amount invoiced as aforesaid, the Contractor shall issue to the Employer, an official receipt in respect of the payments received on the tax invoice issued.</p> <p><u>PAYMENT OF PRELIMINARIES</u></p> <p>D In the event that no amounts have been inserted by the Contractor in respect of Preliminaries, no relative payment whatsoever will be included in any Certificate.</p> <p>E If any abnormally high amount is inserted against an item in the Preliminaries for which whole payment or substantially whole payment is requested to be or would normally be made at the beginning of the Contract and if the Contractor is unable to substantiate such amount, payment for any unsubstantiated amount will be effected over the period of the Contract.</p> <p>F If, after reference to the programme and the actual progress of the Works, delay has occurred in the progress of the Works, the Quantity Surveyor may adjust the cash flow of and any payments included for Preliminaries in Interim Certificates to reflect the revised anticipated duration.</p> <p><u>VARIATION MEETINGS</u></p> <p>G Variation meetings shall be held on a monthly basis or at such intervals as may be directed by the Quantity Surveyor to monitor and agree on the financial effects of variations ordered in the Works. The Contractor (including any Nominated Sub-Contractors or Suppliers as appropriate) shall attend the variation meetings.</p> <p>H The Contractor shall be required to submit at each variation meeting an updated financial status report on the variations, categorised under the following headings:</p> <ul style="list-style-type: none"> (1) Variations issued to date (2) Anticipated variations (3) Variations pending receipt of drawings and details (4) Variations pending cost submission (5) Variation costs pending agreement (6) Agreed variations <p>I Each variation cost claim submitted by the Contractor shall be supported with complete details of all measurements, rates and prices including copies of the relevant drawings with the varied work clearly marked out and/or identified, together with any documents or calculations whether relating to the Contractor's own work or that of the Nominated Sub-Contractors or Suppliers as may be necessary. The Quantity Surveyor may request the Contractor to furnish such additional measurements, calculations, drawings, documentary substantiation or other information to enable the variation cost to be assessed and agreed, and the Contractor shall within 14 days comply with such request.</p>	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>VARIATION MEETINGS (Cont'd)</u></p> <p>Contractor's claims:</p> <p>Without prejudice to the generality of Clause 23 of the Conditions of Contract, the Contractor shall, in respect of any claim, including claims for variations and loss and expense and within the period prescribed by Clause 23.3 (Substantiation of Claims) of the Conditions of Contract if applicable, forward to the [Superintending Officer] each of the following:</p> <p class="list-item-l1">(a) Any and all additional labour resources incurred and a breakdown of all costs incurred in connection therewith.</p> <p class="list-item-l1">(b) Any and all additional plant and equipment used and a breakdown of all costs incurred in connection therewith.</p> <p class="list-item-l1">(c) All records of work done and the nature and extent of such work carried out in respect of the relevant claim(s) and the period(s) to which they relate.</p> <p class="list-item-l1">(d) The endorsement of the resident technical officer on all day works.</p> <p class="list-item-l1">(e) All photographs, drawings and part plans that the Contractor intends to rely on in support of such claim(s).</p> <p class="list-item-l1">(f) All measurements, rates, prices and calculations identifying clearly the claim(s) or varied work accompanied with documentary proof of execution, including photographic and other records. Photographs shall be provided of the works before they are covered up.</p> <p class="list-item-l1">(g) The applicable prices in the Schedule of Rates, if any, which shall be properly referenced in the claim(s).</p> <p class="list-item-l1">(h) Where star rates are applied to the valuation of any item in the claim(s), the Contractor shall procure a minimum of three quotations for that item and furnish documentary records of the same, together with an explanation of the case for the application of star rates.</p> <p>In each case with specific reference to the claim(s) and period(s) to which such documents above relate to.</p> <p>TESTS</p> <p>B The cost of carrying out and arranging for all tests and submission of test certificates/reports called for in the Specification shall be borne by the Contractor.</p> <p>C The Contractor shall allow here for the cost of complying with all testing and re-testing methods, procedures and requirements to the approval of the Superintending Officer unless otherwise specifically stated.</p> <p>D The tests shall include but not limited to the following:</p> <p class="list-item-l1">(a) Hydrostatic tests on concrete flat roofs and toilet floors:</p> <p class="list-item-l2">(i) After casting and prior to application of waterproofing membrane or waterproofing screed</p> <p class="list-item-l2">(ii) After application of waterproofing membrane or waterproofing screed and prior to laying of any finishes</p> <p class="list-item-l2">(iii) After laying of finishes</p> <p class="list-item-l1">(b) Watertightness tests on external brickwalls before plastering works</p> <p class="list-item-l1">(c) Gradient tests to floors of toilets and lift lobbies</p> <p class="list-item-l1">(d) Air infiltration and performance tests on glazed aluminium works</p> <p>SUITABILITY AND COMPATIBILITY OF SPECIFIED MATERIALS AND GOODS</p> <p>E All specified materials and goods including those where trade names and/or catalogue reference numbers are stipulated in the Specification and/or Sections shall be deemed only as a reference of and a guide to the standards and quality of the materials and goods to be used in the Works.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>SUITABILITY AND COMPATIBILITY OF SPECIFIED MATERIALS AND GOODS</u> (Cont'd)	
A	The Contractor shall before carrying out the relevant work where the specified materials or goods are to be incorporated and/or ordering the relevant materials or goods submit to the Superintending Officer for approval such samples of the quality of the materials or goods that the Contractor intends to provide as are specifically referred to. Such approval by the Superintending Officer shall not be conclusive evidence that the materials or goods comply with any requirement or term of the Contract and the Contractor shall remain wholly responsible for the suitability and compatibility of the materials or goods including all its fixings, accessories and associated works arising out of and in connection with the use of the materials or goods. Such suitability and compatibility shall also include with any substrate, adjoining materials and goods of other trades or work sections and/or applied jointing materials eg sealants, adhesives and bonding agents.	
B	In addition, the Contractor shall unconditionally and irrevocably warrant that the materials or goods and all its fixings, accessories and associated works shall be fit for their intended purpose and use in the Works.	
C	If any materials or goods are considered not suitable, compatible or of a standard appropriate to the Works and rejected by the Superintending Officer, the Contractor shall promptly propose alternatives to such materials or goods including its fixings and accessories, and submit them to the Superintending Officer for approval.	
D	The Contractor shall be liable for and shall indemnify the Employer against any expense, liability, loss, claim or proceeding whatsoever arising from the use of unsuitable or incompatible materials or goods, and there shall be no addition to the Contract Sum and no extension of time shall be given in respect of compliance by the Contractor with this provision.	
E	In the event any proposed alternative materials or goods are accepted by the Superintending Officer, the Contractor shall be deemed to have taken into consideration all costs in relation to the use of the alternative materials or goods including but not limited to: (1) any redesign and/or adjustment of the accessories, fixing brackets and/or the like items as may be necessary to accommodate the alternative materials or goods; and (2) any additional or consequential costs that may arise as a result of the use of the alternative materials or goods for the Works, and the Contractor shall not be entitled to any claims for additional cost and/or extension of time in respect thereof.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>EXCEPTIONALLY ADVERSE WEATHER</u></p> <p>The Contractor's attention is drawn to the monthly rainfall records maintained at the Meteorological Service Stations at Tengah, TripleOne Somerset Building, Seletar, Paya Lebar and Changi. These records show that the average 'wet day' returns (days where rainfall was recorded as 10.16mm or more) for the ten year period from 2006 to 2015 as follows:</p> <ul style="list-style-type: none"> (a) January (7 days); (b) February (4 days); (c) March (9 days); (d) April (9 days); (e) May (6 days); (f) June (5 days); (g) July (6 days); (h) August (7 days); (i) September (7 days); (j) October (7 days); (k) November (11 days); (l) December (10 days). 	
B	The Contractor is required to submit the daily rainfall tabulation obtained from the Meteorological Service, Singapore of the meteorological station nearest to the Site on a monthly basis. The rainfall figures recorded at the nearest meteorological station shall be used to compute the number of 'wet days' in the month.	
C	For the purposes of assessing any extension of time due to exceptionally adverse weather, the Contractor shall only be allowed an extension of time due to adverse conditions which occur in excess of the said average 'wet day' returns for the past ten years provided such conditions, in the opinion of the Superintending Officer, affect the progress of the Works and make continuance of work impracticable.	
D	<u>SEVERE HAZE CONDITIONS</u> For the purposes of assessing any extension of time due to severe haze conditions, the Contractor shall only be allowed an extension of time due to haze above 300 PSI and provided such severe haze conditions, in the opinion of the Superintending Officer, affect the progress of the Works and make continuance of work impracticable.	
E	<u>SETTING OUT AND CHECKING OF THE WORKS</u> The Contractor shall employ a registered surveyor to set out the Works. Provide, maintain, protect and reinstate reference pegs and marks as required by the Superintending Officer for the duration of the Contract.	
F	Provide the Superintending Officer with four (4) copies of certified survey plans (in hardcopy and CD-ROM [in AutoCad and PDF format]) and one intermediate print bearing all relevant information of the setting out of each section of the Works within fourteen days from the date of commencement of work on that section.	
G	Where applicable, the surveyor shall check all vertical structural members such as walls and columns for plumb.	
H	Four (4) sets of the surveyor's report and field readings showing the deviation from vertical of structural members shall be submitted to the Superintending Officer as and when completed.	
I	At completion of the Contract, execute a confirmatory survey of the setting out of the Works (inclusive of any underground services) and provide four (4) copies of certified survey plans in hardcopy and CD-ROM (in AutoCad and PDF format) to the Superintending Officer.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	'AS-BUILT' SURVEY DRAWINGS OF INTENDED FLOOR AREAS As soon as the walls and partitions for each floor are completed, the Contractor shall forthwith provide the Superintending Officer with four (4) copies of certified 'as-built' survey plans (in hardcopy and CD-ROM [in AutoCad and PDF format]) bearing all relevant dimensions of the walls and partitions.	
B	At completion of the Contract, provide the Superintending Officer with a complete set of intermediate prints (of every floor) of the above described certified 'as-built' survey plans.	
C	PLANT AND EQUIPMENT Provide all plant, equipment, tools and vehicles for the proper execution of the Works. Such costs and expenses shall include but not limited to the co-ordination and movement of plant and equipment to and from and around the Site, erection, dismantling and maintenance.	
D	The Contractor shall ensure that only plant, equipment and tools with minimal safety, health and environment risks shall be brought to the Site.	
E	Where in the Superintending Officer's opinion that any plant or equipment is emitting excessive smoke, fumes or other noxious gases, the Superintending Officer shall be entitled to demand for a newer plant or equipment as deemed adequate by him. In such event, the Contractor shall not have any claim for additional costs or extension of time or whatsoever against the Employer.	
F	CONTROL OF CONSTRUCTION NOISE The Contractor shall ensure that noise generated arising out of or in connection with all construction and/or site activities at the Site will not exceed the maximum levels permitted under the Environment Protection and Management (Control of Noise at Construction Sites) Regulations for the time being in force including any amendments to the said Regulations and/or changes in the requirements of the National Environment Agency and/or the Ministry of the Environment and Water Resources.	
G	SCAFFOLDING AND STAGING Provide all necessary and related scaffolding, staging, nets, ladders and catwalks necessary for the proper execution of the Works.	
H	If the Contractor should strike any of his scaffolding before ascertaining whether it is required by any sub-contractor or public authority, he must re-erect it if so required at his own expense.	
I	LOADING IN EXCESS OF DESIGN LOAD No loading in excess of the design loading shall be placed on any portion of the structure without the written permission of the Superintending Officer. If such permission is granted all structural members subjected to loading other than the design loading shall be strengthened and supported to the satisfaction of the Superintending Officer at the Contractor's expense.	
J	Notwithstanding the written permission of the Superintending Officer, the Contractor shall bear all costs arising out of the making good of any damage to the permanent structure caused by excess loading.	
K	LABOUR ON-COSTS Provide for all costs, payments and charges in respect of all workpeople for:- (1) Central provident fund contributions and levy scheme	
L	(2) Annual and public holidays	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>LABOUR ON-COSTS (Cont'd)</u></p> <p>Provide for all costs, payments and charges in respect of all workpeople for:- (Cont'd)</p> <p>A (3) Travelling time, expenses, fares and transport</p> <p>B (4) Non-productive time and other expenses in connection with overtime</p> <p>C (5) Incentive and bonus payments</p> <p>D (6) Any other payments and charges arising from the employment of workpeople.</p> <p><u>SITE MANAGEMENT COSTS</u></p> <p>The Contractor shall constantly keep upon the Works on a full-time basis, the following key site personnel:-</p> <p>E (1) A qualified, competent and experienced Project Manager who shall be the Contractor's Representative in overall charge of the Works</p> <p>The Project Manager shall have:</p> <p>a) A qualified and recognised degree (local University) in Architecture, Civil / Structural / Electrical / Mechanical Engineering, Building Science or Quantity Surveying with at least 4 years of relevant post-graduate working experience in the building construction industry or at least 3 years of relevant post-graduate project management experience. He is to have experience in A&A projects for exhibition halls. The degree shall be recognized by the respective Professional Bodies professional institutions or Building and Construction Authority; or</p> <p>(b) A qualified and recognised diploma (local Polytechnic) in Civil / Structural / Mechanical / Electrical Engineering, Building Science, Building Management, Building Services Engineering and at least 10 years of relevant working experience in the building construction industry. The working experience should preferably be working on past A&A projects (Exhibition Halls) and shall be recognized as relevant working experience.</p> <p>F (2) A qualified, competent and experienced mechanical and electrical engineer who shall act as the project manager for all mechanical and electrical works on this project. The engineer in this connection shall be fully experienced in the types of works to be carried out under the Contract. He/she shall organize and co-ordinate on the Contractor's behalf all mechanical and electrical engineering aspects of the Works.</p> <p>G (3) A qualified, competent and experienced Quantity Surveyor(s) who have a good track record with construction work of the same complexity, character and size as that of the works. The Contractor's Quantity Surveyor(s) shall be available at all times to attend site meetings and to matters relating to the measurement and valuation of the Works and variations, payments, invoices, documentary records and the settlement of final accounts arising from the Contract until the finalization of the Final Account Certificate referred to in Clause 32.5 and for the full duration of the Contract Period including the Defects Liability Period.</p> <p>H (4) A general foreman who shall be continuously in charge of the execution and maintenance of the Works throughout the currency of the Contract.</p> <p>I (5) Adequate assistant foremen, site supervisors and all necessary "back-up" staff who are skilled, competent and experienced in their respective callings.</p>	

PRELIMINARIES

Item	Description	Amount S\$
	<p>SITE MANAGEMENT COSTS (Cont'd)</p> <p>The Contractor shall constantly keep upon the Works on a full-time basis, the following key site personnel:- (Cont'd)</p> <p>A (6) Workplace Safety and Health Officer (WSHO) throughout the Contract Period to ensure compliance with requirements under the Workplace Safety & Health Act, Workplace Safety & Health (Workplace Safety and Health Officers) Regulations. The Workplace Safety & Health Officer shall implement appropriate safety measures and ensure a safe work environment and safe work procedures in accordance with the Workplace Safety & Health Act and Subsidiary Legislation including the provisions of the Workplace Safety & Health (Construction) Regulations 2007 and the requirements specified under the Contract.</p> <p>B (7) Public Relations Officer to be in charge with liaising with existing and new tenants as well as neighboring developments on the project schedules and areas affected.</p> <p>C (8) A Structural Site Supervisor, a M&E Site Supervisor and an Architectural Site Supervisor. The Site Supervisor shall: (i) Possess a National Certificate in Construction Supervision (NCCS) and at least 5 years of similar capacity relevant working experience in the local building construction industry; or (ii) Possess a qualified and recognised Diploma (local Polytechnic) in Architectural/Civil/Structural/ Mechanical/Electrical Engineering, Building Science, Building Management, Building Services Engineering and at least 3 years of relevant working experience (A&A shopping mall projects) in the local building construction industry; or (iii) Possess a qualified and recognised degree (local university) in Civil/Structural/ Mechanical/Electrical Engineering and at least 2 years of relevant working experience (A&A shopping mall projects) in the local building construction industry. For (i) and (ii), The National Certificate /Diploma should be recognized either by the respective Singapore Professional Bodies, professional institutions or Building and Construction Authority. Notwithstanding the requirements as specified in (i) to (iii) (inclusive) above, where the Contractor is required to employ the Site Supervisor for mechanical/electrical Works, the Site Supervisor must be suitably qualified under the mechanical/electrical engineering academic qualifications and with the relevant work experiences and also received adequate safety and health training to ensure that the work which he oversees or supervises can be carried out safely.</p> <p>D The Contractor shall provide an organisation chart showing the full and detailed list of his site supervisory staff for the project for the approval of the Superintending Officer. Such list shall include all relevant details of each staff member including his functions, position, duties, qualification, experience, age and length of employment with the Contractor. The provision of such organisation chart and the Superintending Officer's approval thereof shall not limit the Contractor's responsibilities and obligations in respect of adequate staffing at the Site. In the event additional staff are considered necessary to properly and effectively supervise the execution of the Works, the Contractor shall provide such additional staff at no extra cost to the Employer.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>SITE MANAGEMENT COSTS (Cont'd)</u></p> <p>In the event that the above persons are not deployed by the Contractor or not deployed for the full duration of the Works, the Superintending Officer shall certify the deduction of a reasonable amount or an amount calculated on the basis of the monthly salary and costs for the period for which such persons are not so deployed.</p> <p>B The Superintending Officer shall be empowered to instruct the Contractor for a replacement of the site personnel at the Contractor's own costs and expenses if any of the site personnel is found not carrying his duties to the satisfaction of the Superintending Officer.</p> <p>C Within 21 days from the date of the Letter of Acceptance, the Contractor shall submit the name, identity card numbers and documentary evidence of the educational qualifications and experience of all the proposed site personnel employed by the Contractor. The employment of the site personnel shall be subject to Superintending Officer's review and approval.</p> <p><u>OTHER SUPERVISION CONSULTANTS</u></p> <p>D The Site Inspection Staff including all necessary Resident Engineer (RE) and Resident Technical Officer (RTO) shall be engaged by the Employer and/or Consultants for the full supervision of the Works throughout the Contract.</p> <p><u>SLOTS ACCREDITATION</u></p> <p>E The Contractor shall only employ sub-contracting firms of the following registration heads or trades who are registered in the CW01 category by BCA (Building and Construction Authority) or by SCAL (Singapore Contractors Association Ltd) under the SLOTS (Singapore List of Trade Sub-Contractors) scheme unless such sub-contractors are on a direct-employed basis:</p> <ul style="list-style-type: none"> (1) Civil and Structural <ul style="list-style-type: none"> - Formwork - Metal form (erectors) - Reinforcement work (fixers) - Structural steelwork (2) Architectural and Finishing <ul style="list-style-type: none"> - Bricklaying - Joinery - Painting - Plastering - Roofing - Tiling <p>F The Contractor shall submit to the Director (Manpower Development Division) of BCA, Work Permit Section, and the Superintending Officer, a list of trade sub-contractors at the commencement of the Works. Maintain and update the list as and when required using the prescribed form obtainable from SCAL or the Work Permit Section of BCA and submit to the Director (Manpower Development Division).</p> <p>G Within 14 days prior to the commencement of each of the trades, the Contractor shall forward the SLOTS registration or BCA certificate of the trade sub-contractors employed. The Contractor shall be responsible for all costs and expenses, incidental thereto or consequent thereon, in the event he fails to register the trade sub-contractors with SLOTS timeously. No extension of time shall be given in respect of any delay so caused.</p> <p>H Appropriate action may be taken by BCA should the Contractor fail to comply with the provisions contained in this item.</p>	

To Collection

PRELIMINARIES

Item	Description	Amount S\$
A	<p>SLOTS ACCREDITATION (Cont'd)</p> <p>Allow for all costs and charges in connection therewith.</p> <p>OVERTIME</p> <p>Should the Contractor consider that overtime working is necessary in order to attract and retain the necessary workpeople or to complete the Works or sections of the Works within the Time for Completion, he shall allow for such overtime payments for his workmen and his supervisory staff including the provision of any additional plant, facilities and the like arising out of overtime work.</p> <p>Prior written permission of the Superintending Officer shall be obtained before overtime work is carried out, including notifying and obtaining the permission of the Superintending Officer in writing if the Contractor requires the Employer's site inspection staff (including the RE and RTO) to be present during overtime work.</p> <p>If the Superintending Officer considers it necessary for the Employer's site inspection staff to be present during overtime work, the Contractor shall reimburse the Employer for the cost of such overtime payments which shall be paid by the Employer first. The reimbursement to the Employer with regards to the overtime payments shall be made via deduction from the Contractor's monthly progress claims and the Contractor shall be responsible for ensuring proper records of overtime are kept for verification purpose. For the purpose of this clause, overtime shall mean any time except between the hours of 8 a.m. and 5 p.m. on Mondays to Fridays and 8 a.m. to 12 noon on Saturdays. All Sundays and Public Holidays shall count as overtime.</p> <p>The Contractor is not allowed, at all times, to make overtime payments directly, be it to the Employer's site inspection staff and/or the Operator's vendors (e.g. security guards, cleaners etc). All overtime payments are to be made by the Employer and to be reimbursed to the Employer by the Contractor via deductions from the monthly progress claims in accordance with the Condition of Contract.</p> <p>THE EMPLOYMENT OF FOREIGN MANPOWER ACT CAP 91A AND THE IMMIGRATION ACT CAP 133</p> <p>The Contractor undertakes that it will not:-</p> <p>(1) employ and will ensure that its sub-contractors do not employ any Foreign Employee as defined under the Employment of Foreign Manpower Act Cap 91A, its subsidiary legislation and/or all enactment or re-enactment thereof (hereinafter collectively referred to as 'the Employment of Foreign Manpower Act') unless the Contractor or its sub-contractors has obtained in respect of the Foreign Employee valid work pass required by the Employment of Foreign Manpower Act which allows the Foreign Employee to work for the Contractor or its sub-contractors. The Contractor shall ensure that the said employment of the Foreign Employee is in accordance with the conditions of the work pass;</p> <p>(2) harbour or employ and will ensure that its sub-contractors does not harbour or employ any person who has acted in contravention of the provisions of the Immigration Act Cap 133, its subsidiary legislation and/or all enactment or re-enactment thereof (hereinafter collectively referred to as 'the Immigration Act'); and</p>	

To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>THE EMPLOYMENT OF FOREIGN MANPOWER ACT CAP 91A AND THE IMMIGRATION ACT CAP 133 (Cont'd)</u></p> <p>The Contractor undertakes that it will not:- (Cont'd)</p> <p>A (3) contravene any of the provisions of the Employment of Foreign Manpower Act and/or the Immigration Act and shall comply with any legal, statutory or other requirement in relation to its or its sub-contractors' applications for work passes for their Foreign Employees relating to the carrying out of the Works.</p> <p>B The Contractor shall be liable for and shall indemnify the Employer against any damage, expense, liability, loss, claims, proceedings and/or penal sanction whatsoever arising out of or by reason of the commission of any offence under the Employment of Foreign Manpower Act and/or the Immigration Act and of any breach or default of the undertaking to be submitted in accordance with the specimen annexed to this Section as Appendix SECT1/B.</p> <p>C Any breach or default by the Contractor of any of the above mentioned undertaking shall be construed as a fundamental breach of this Contract which would entitle the Employer to terminate the employment of the Contractor pursuant to the Conditions of Contract.</p> <p>D For the avoidance of doubt, the Employment does not consent nor in any way condone the contravention of any of the provisions of the Employment of Foreign Manpower Act and/or the Immigration Act. The Employer shall therefore be entitled to carry out checks and inspections of the Contractor's workers/employees as well as the workers/employees of the sub-contractors to ascertain whether there is any contravention of the provisions of the Employment of Foreign Manpower Act and/or the Immigration Act.</p> <p>E Where in the Employer's opinion, there is a contravention of any provision of the Employment of Foreign Manpower Act and/or the Immigration Act, the Employer shall be entitled, in respect of such a contravention, to deny entry and/or evict any person employed by the Contractor and/or its sub-contractors from the Site. In such an event, the Contractor and/or its sub-contractors shall not have any claim or recourse whatsoever against the Employer.</p> <p>The Contractor shall:</p> <p>F (1) check the passport, document of identity or other travel document of the Contractor's workers/employees and/or the workers/employees of the sub-contractors in order to establish if the said workers/employees are foreigners;</p> <p>G (2) do everything necessary to assist the Employer should the Employer wish to check the passport, document of identity or other travel document of the Contractor's workers/employees and/or the workers/employees of the sub-contractors;</p> <p>H (3) ensure that all its as well as its sub-contractors' Foreign Employees shall have in their possession the respective valid work passes as required under the Employment of Foreign Manpower Act and/or permits and/or passes as required under the Immigration Act;</p> <p>I (4) provide to the Employer a copy of the Register, which pursuant to the Employment of Foreign Manpower Act, the Contractor shall keep of Foreign Employees;</p> <p>J (5) update the aforesaid Register at all times;</p>	

To Collection

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>THE EMPLOYMENT OF FOREIGN MANPOWER ACT CAP 91A AND THE IMMIGRATION ACT CAP 133 (Cont'd)</u></p> <p>The Contractor shall: (Cont'd)</p> <p>A (6) before commencement of the Works, submit a list of all Foreign Employees of the Contractor and/or its sub-contractors and/or foreigners who are on the Site for any reason whatsoever. The list shall contain the following information:</p> <ul style="list-style-type: none"> (a) Name according to legal identification document; (b) Nationality; (c) Passport number or identity card number; (d) Sex and age; (e) Work pass number or entry permit number; (f) Expiry date of work pass or entry permit; and (g) Job designation. <p>B (7) update the aforesaid list at all times;</p> <p>C (8) issue security passes to all workers/employees on Site, provided that for foreign employees and/or foreigners, the security passes shall only be issued to those who have valid work passes or entry permits; and</p> <p>D (9) ensure that such security passes must be worn at all times by all the workers/employees on Site.</p> <p>E The Contractor shall take all the measures which it is required to take under the Employment of Foreign Manpower Act, and the Immigration Act, including the Employment of Foreign Manpower (Security Measures for Work Place) Notification and the Immigration (Security Measures for Work Place) Notification and any other amendment, enactment or notification to the said Acts.</p> <p>F Nothing herein shall be construed as prejudicing or limiting the Contractor's duties under the aforementioned Acts, amendment Acts or Notifications nor be construed as imposing on the Employer any of such duties of the Contractor.</p> <p><u>LICENSING OF BUILDERS</u></p> <p>G The terms "builder", "general builder", "specialist builder", "specialist building works" and "significant general building work project" shall have the same meaning as in the Building Control Act and its subsidiary legislation.</p> <p>H The Contractor shall have a general builder's licence and/or a specialist builder's licence under the Building Control Act to carry out and complete the Works.</p> <p>I The Contractor shall ensure that all specialist building works in the project (whether carried out by the Contractor or any other party in the project) are carried out by specialist builders licensed under the Building Control Act.</p> <p>J The Contractor shall also ensure that all provisions under the Building Control Act and its subsidiary legislation in relation to licensing of builders (whether applicable to the Contractor or any other party in the project) are complied with.</p> <p>K In connection with the above, the Contractor shall undertake that it :</p> <ul style="list-style-type: none"> (1) will employ and shall ensure that all specialised builders, as defined under the Act, are duly licensed to carry out specialist building works; (2) will not contravene any of the provisions under Part VA of the Building Control Act (Cap. 29) on Licensing of Builders and/or its Regulations and any amendments or re-enactment thereof. 	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<p>LICENSING OF BUILDERS (Cont'd)</p> <p>A The Contractor shall provide the schedule of licensed builders in the form set out in Appendix TF/C. The Contractor shall additionally maintain a site register containing records of the licences of the Contractor and the specialist builders carrying out work in the project including the licence numbers, the date of issue and date of expiry of the licences, the Approved Person and Technical Controller under each licence. Until completion of the project, submit to the Superintending Officer by the 7th day of each calendar month copies of the site register updated to the end of the prior month.</p> <p>B The Contractor shall immediately notify the Superintending Officer and the Employer in writing if the licence of the Contractor or any specialist builder carrying out work in the project is suspended or revoked or expires without being renewed. If the licence of any specialist builder carrying out work in the project is suspended or revoked or expires without being renewed:</p> <p>C (i) The Contractor shall immediately stop all works being carried out by the specialist builder.</p> <p>D (ii) It shall be the Contractor's responsibility to ensure that the works carried out by that specialist builder are resumed by another licensed specialist builder or by the original specialist builder once it gets its licence back. All delays, costs and other consequences arising from the stoppage shall be on the Contractor's account. No extension of time or costs or other claims will be allowed.</p> <p>E (iii) When the Contractor is ready to re-start the affected works, the Contractor shall apply to the Superintending Officer for permission to re-start the works. The application shall be accompanied by documentary proof that the works will be carried out by a specialist builder who has a licence to carry out the works (whether it be the original specialist builder or a new specialist builder). The works shall not re-start until the Superintending Officer issues an instruction for the works to re-start.</p> <p>F (iv) If the Contractor does not immediately stop the works of the specialist builder whose licence has been suspended or revoked or has expired without renewal or allows the specialist builder to re-start any of its works without an instruction from the Superintending Officer allowing the re-start, the Superintending Officer reserves the right to issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract.</p> <p>G (v) The Superintending Officer may also issue an instruction giving the Contractor a deadline to re-start the affected works. If the Contractor is able to re-start the works, the procedure as hereinbefore mentioned shall apply. If the Contractor is not able to re-start the works by the deadline given, the Superintending Officer reserves the right to issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract. If the Contractor's own general builder's licence or specialist builder's licence (as the case may be) is suspended or revoked or expires without being renewed:</p> <p>H (i) The Contractor shall notify the Superintending Officer and immediately stop the Works and take steps to close down and maintain the Site.</p> <p>I (ii) All delays, costs and other consequences arising from the suspension or revocation or non-renewal of the licence shall be on the Contractor's account. No extension of time or costs or other claims will be allowed.</p>	

PRELIMINARIES

Item	Description	Amount S\$
	<p>LICENSING OF BUILDERS (Cont'd)</p> <p>If the Contractor's own general builder's licence or specialist builder's licence (as the case may be) is suspended or revoked or expires without being renewed: (Cont'd)</p> <p>A (iii) The Superintending Officer reserves the right to issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract if the Contractor's licence is suspended or revoked or expires without being renewed.</p> <p>B (iv) The Superintending Officer may also issue an instruction giving the Contractor a deadline to reinstate its licence and re-start the Works. If the Contractor is able to reinstate its licence, it shall apply to the Superintending Officer for permission to re-start the Works. The application shall be accompanied by documentary proof that the Contractor's licence has been reinstated. The Works shall not re-start until the Superintending Officer issues an instruction for the Works to re-start. The Superintending Officer may issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract if the Contractor fails to reinstate its licence and re-start the Works by the deadline given.</p> <p>C (v) If the Contractor does not immediately stop the Works after its licence has been suspended or revoked or has expired without renewal or re-starts the Works without an instruction from the Superintending Officer allowing the re-start or fails to comply with the Superintending Officer's instructions to close down the Site or to maintain the Site, the Superintending Officer reserves the right to issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract.</p> <p>D The Contractor shall, no later than one month before the expiry of its general builder's licence or specialist builder's licence (as the case may be), renew the licence and provide evidence of the renewal to the Superintending Officer failing which the Superintending Officer may issue an instruction suspending the Works until the Contractor provides evidence of the renewal. Upon receipt of the Superintending Officer's instruction to suspend the Works, the Contractor shall immediately stop the Works and take steps to close down and maintain the Site. If the Contractor does not immediately suspend the Works or re-starts the Works without providing the Superintending Officer with evidence of renewal of its licence or fails to close down the Site or to maintain the Site, the Superintending Officer may issue a Termination Certificate under Clause 31.1(1) of the Standard Conditions of Contract. If the suspension of the Works does not end by the time the Contractor's licence expires, the provisions as described hereinbefore in this clause shall apply and the suspension will cease on the last day of validity of the Contractor's licence. For the avoidance of doubt, the provisions of Clause 13 of the Standard Conditions of Contract on suspension of the Works shall not apply to a suspension of the Works under this clause. All delays, costs and other consequences arising from the suspension shall be on the Contractor's account. No extension of time or costs or other claims will be allowed.</p> <p>E If the Superintending Officer proceeds to issue a Termination Certificate in accordance with the provisions hereinbefore mentioned, the Employer may terminate the employment of the Contractor in accordance with Clause 31.1(2)(e) of the Standard Conditions of Contract.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>LICENSING OF BUILDERS (Cont'd)</p> <p>Instead of terminating the employment of the Contractor after the right to do so under Clause 31.1(2) of the Standard Conditions of Contract arises, the Employer may require the Contractor to novate the Contract to a new contractor appointed by the Employer. The Contractor shall sign the novation agreement (which shall contain such terms and conditions as may be specified by the Employer) by such date as specified by the Employer. If the Contractor fails to sign the novation agreement by the date specified, the Employer shall forthwith terminate the employment of the Contractor in accordance with Clause 31.1(2) of the Standard Conditions of Contract.</p>	
B	The above provisions shall be in addition to any other rights and remedies which the Employer may have against the Contractor under the Contract or in law.	
C	<p>MANPOWER PROGRAMME FOR CONSTRUCTION REGISTRATION OF TRADEMEN (CORETRADE)</p> <p>Within 30 days from the date of the grant of permit to carry out structural works, the Contractor shall lodge with the Commissioner of Building Control a manpower programme in the form and manner as prescribed under the Act. The Contractor shall notify the Commissioner of any updates prior to deployment and changes in the lodged manpower programme shall be made within the statutory prescribed timeline.</p>	
D	The Contractor shall extend to the Superintending Officer a copy of the manpower programme accepted by the Commissioner including updates and/or changes in the lodged manpower programme.	
E	<p>The Contractor shall be responsible for and shall keep and maintain the following documents on Site throughout the duration of the Contract :</p> <ul style="list-style-type: none"> (1) a copy of the manpower programme including updates and/or changes thereof; (2) an official site attendance record for all registered construction personnel deployed; (3) a record of all documents accounting for the absence of each registered construction personnel during the scheduled period of his deployment; and (4) such other documents as may be required by the Commissioner from time to time. 	
F	ATTENDANCE Allow for attendance of one trade upon another as may be required to complete the Works.	
G	Allow for providing attendance and facilities as may be required by all domestic sub-contractors.	
H	The Contractor is referred to Section 2 for details of attendance and facilities to be provided in respect of Nominated Sub-Contractors and Direct Contractors.	
I	CUSTOMS RESTRICTIONS AND DUTIES Provide for all costs incurred in connection with customs restrictions, quotas, duties and taxes.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>GOODS AND SERVICES TAX (GST)</u>	
A	Notwithstanding the implementation of the Goods and Services Tax (GST) in Singapore with effect from 1st April 1994, any reference in the Conditions of Contract to 'Contract Sum', 'rates' or 'prices' including adjustments to the Contract Sum shall be regarded as such sum, rate or price exclusive of any tax properly chargeable by the Comptroller under or by virtue of the Goods and Services Tax Act (Cap. 117A) or any amendment or re-enactment thereof on the supply of goods and services that may be recoverable by the Contractor from the Employer under this Contract.	
B	The Contractor shall however be deemed to have included in the Contract Sum for all costs and expenses arising out of or in relation to the administration of the GST payable by him on the goods and services purchased for the carrying out and bringing to completion of the Works. Such costs and expenses shall include but not be limited to all administrative costs, financial charges, etc relating to the GST payable by him. There shall be no adjustments whatsoever on the costs and expenses so included in consequence of any instructions ordered, addition, omission or substitution of work, materials or goods nor for any price fluctuations under the Contract.	
	<u>SAMPLES</u>	
C	Submit samples of materials and goods to the Superintending Officer as and when required and obtain his written approval. The samples must be submitted in ample time for the Superintending Officer's review prior to quantity fabrication or, in the case of manufactured items, prior to placing purchase orders.	
D	Samples of materials and goods shall be submitted with descriptive labels and/or application or installation instructions intact and legible and properly labelled/tagged to identify the material type, reference, manufacturer/supplier and country or origin.	
E	Where variations in texture, colour, grain or other characteristics are inherent and anticipated in the samples submitted, a sufficient quantity shall be provided to indicate the full range of characteristics which will be present.	
F	The Contractor shall accompany each transmittal of samples with a transmittal listing the sample data for each sample and referencing each sample to the appropriate drawing or Specification section and clause.	
G	Acceptance of any sample shall be only for characteristics or for uses named in such acceptance and for no other. Acceptance of a sample shall not be taken to change or modify any requirement of the Contract Documents. Once a material has been accepted, no further change in brand or make will be permitted.	
H	Execute samples of workmanship and prototypes for the Superintending Officer as and when required.	
I	The Contractor must obtain the Superintending Officer's written approval of the respective samples of workmanship and prototypes before proceeding with the actual mass execution of the various sections of the Works.	
J	The finished work must correspond to the approved samples of materials, workmanship and prototypes. The Superintending Officer at his sole discretion may return certain samples for use in the Works. These shall be installed in good condition and suitably marked for identification. Such samples and any packing are to be provided at the expense of the Contractor for the use of the Superintending Officer and are to be displayed in a sample room.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>MOCK-UPS</u></p> <p>The Contractor is required to provide mock-ups for the following works:</p> <ol style="list-style-type: none"> 1. Full toilet mock-up at Phase 1 including fully fixed and installed sanitary wares, fittings, fixtures and accessories; 2. Full installation of heavy duty homogenous tiles to 1 portion of F&B Atrium Area; 3. Typical railing detail of Coach Drop-off Area and Staircase at Hall 10 facing Singapore University of Technology and Design (SUTD); 4. Rainscreen Aluminium Louvres at Foyer 2 Taxi Stand area; and 5. Aluminium Roof Sheet Overlay <p>amongst other mock-ups required as per the Tender Documents. All sizes and dimensions of the required mock-ups shall be subject to the acceptance and approval of the Employer and/or Superintending Officer.</p>	
B	<p>The Contractor shall submit the programme and technical proposal for the completion of the mock-ups together with his tender submission for review by the Superintending Officer. The Contractor is to note that the above programme and proposal shall be subject to the Superintending Officer's final approval.</p>	
C	<p>The Contractor is not allowed to proceed with bulk purchase and mass production/installation of the elements/works prior to obtaining approval of the respective mock-ups by the Superintending Officer. Any works completed and materials ordered before the approval of mock-ups shall be rejected by the Superintending Officer. All time and cost implications arising due to the rejection will be borne by the Contractor.</p>	
D	<p>The Contractor is to programme the works to the mock-ups in such a sequence as to enable the Superintending Officer to progressively inspect the Works and individual elements before the completion of the entire mock-up works.</p>	
E	<p>The approved completed works and elements in the mock-ups will set the type of materials, the standard and the quality of the workmanship. Unless otherwise instructed by the Superintending Officer, the remaining works shall be carried out and completed in exact conformity to and of the standard and quality of workmanship equivalent or higher than those completed for the mock-ups.</p>	
F	<p>The Contractor shall allow here for all costs and expenses incurred for completing, protecting and maintaining these mock-ups in advance of the remaining portion of the Works under construction and for disruption caused to the regular progress of the Works.</p>	
G	<p><u>TRANSFER OF PLANT, LABOUR AND MATERIALS</u></p> <p>In the event of a delay occurring on one section of the Works for any reason whatsoever, the Contractor is to transfer his plant, labour and materials as far as practicable to another section of the Works so as not to allow them to stand idle or cause delays.</p>	
H	<p>If the Contractor fails to carry out a transfer when such a step is considered reasonable and practicable by the Superintending Officer, no claim for extra payments or extension of time will be entertained.</p>	
I	<p><u>ACCESS FOR INSPECTION AND SUPERVISION</u></p> <p>The Contractor shall maintain unhindered and safe access to and easy inspection of all materials and work including any special ladders, gantries, platforms, ramps or scaffolding required for the Superintending Officer's inspection and supervision.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>POLLUTION AND SITE HYGIENE</u></p> <p>The Contractor shall provide and maintain temporary channels, drains and the like for keeping the Site clear of water.</p> <p>B The Contractor shall take all reasonable precautions to ensure the efficient protection of all streams and waterways against pollution arising out of or by reason of the execution of the Works.</p> <p>C Where water is discharged into drains, silt traps, settling tanks or other means of removing sediment are to be used.</p> <p>D The Contractor shall not dump unwanted building debris, chemicals, any noxious or polluting matter on any vacant plot of land, roadside or drains thereby causing chokage leading to mosquito breeding or causing contamination of the Site or the drainage system.</p> <p>E The Contractor shall comply with and pay all charges levied by any Government or public authority with jurisdiction on matters of pollution or site hygiene.</p> <p><u>FLOOD PREVENTION DURING RAINY PERIODS / SEASONS</u></p> <p>F The Contractor shall implement flood prevention measures and comply with all requirements which might be imposed by PUB to prevent the Site and its vicinity from being choked and consequently leading to flooding especially during the rainy periods. These public drains shall include but not limited to the road side scupper holes and drop inlet chambers.</p> <p>G Without limiting the generality of the foregoing, the Contractor shall carry out the following:</p> <ul style="list-style-type: none"> (a) Provide a plan showing all public drains in and within the vicinity of the Site. Any diversion of drains shall be clearly indicated on the plan; (b) Ensure that all approvals for drainage related works and supervision of such works by the Qualified Site Supervisors are properly documented and a copy is kept on Site; (c) Provide for colour photographs to show that the drains and drainage outlets are free from obstruction and constriction. Each photograph shall be dated, suitably captioned and marked with the location of which it was taken and the condition of the drains; and (d) A report on the state of the drainage system. <p>H The Contractor shall submit the prescribed declaration form from PUB complete with the documents as hereinbefore described (including any documents as may be required by PUB) within the timeline stipulated by PUB.</p> <p>I The Superintending Officer may at his discretion, request for more frequent monitoring during the rainy periods / seasons. At the request of the Superintending Officer, the Contractor shall furnish the photographs as mentioned in item (c) evidencing that the drainage system are in its satisfactory state. The frequency of such monitoring and the submission of the photographs shall be agreed with the Superintending Officer.</p> <p>J All costs and expenses arising from the above shall be borne by the Contractor and deemed priced herewith.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>EARTH CONTROL MEASURES</u></p> <p>The Contractor shall be responsible for preventing silt from being washed into public drains by implementing effective Earth Control Measures ('ECM') for the construction site to meet the requirements under the latest Sewerage and Drainage Act Cap 294. (Information on ECM requirements can be found in the Code of Practice on Surface Water Drainage and the website www.pub.gov.sg/ECM). The Contractor shall note that the ECM are for the containment and treatment of silty discharges due to the impact of rainwater. ECM are not meant for the treatment of wastewater due to construction activities (such as slurry from tunnelling, pipe-jacking and bore-piling works) which shall be treated to comply with the requirements under Environmental Protection and Management Act (Chapter 94A).</p> <p>B</p> <p>In his tender submission, the Contractor shall submit his schematic ECM plans of the construction site for the whole duration of the contract period taking into account the different phases of construction activities. He shall also provide the name of the Qualified Erosion Control Professional ('QECP') who will be endorsing the ECM plan after the tender is awarded. These schematic ECM plans shall make the Contractor aware of the ECM requirements and the cost to implement an effective ECM. Notwithstanding the submission of these schematic ECM plans, the Contractor shall be fully responsible for the effectiveness of the ECM plan and the Contract Sum shall deem to include all costs and expenses incurred in connection with the compliance of ECM requirements.</p> <p>C</p> <p>Before construction works commence on site, the Contractor shall engage a QECP to plan and design the ECM, and he shall install the ECM according to the QECP's design. The ECM plan and design shall be submitted 1 week after the award of the contract. During the course of the construction works, the Contractor together with his QECP shall review the ECM proposal regularly to meet the changing needs of the construction activities. The Contractor shall improve the ECM as advised by his QECP. The planning and design of the ECM shall meet the minimum requirements stipulated and in accordance to the Code of Practice on Surface Water Drainage.</p> <p>D</p> <p>The Contractor shall maintain the ECM for the whole duration of the contract to ensure that it is effective at all times. Proper records detailing the maintenance works, supported by dated photographs, shall be kept by the Contractor for verification.</p> <p>E</p> <p>The Contractor shall not remove the ECM until all works are completed and upon the advice of his QECP.</p> <p>F</p> <p>The Contractor shall submit the ECM proposal duly endorsed by his QECP to Public Utilities Board for records. The proposed ECM shall consist of the following four parts:</p> <p>1 Project Particulars The following information shall be provided under the Project Particulars: (a) Project description; (b) Name and address of site occupier; (c) Site area and contract period; (d) Location map and site plan.</p> <p>2 Erosion Control Plan (as described below)</p> <p>3 Sediment Control Plan (as described below)</p> <p>4 Site ECM Management System (as described below)</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>EARTH CONTROL MEASURES (Cont'd)</p> <p>During construction, the Contractor shall minimize the formation of bare surfaces under the ECM's Erosion Control Plan. The Plan shall depict graphically the activities, including sequence of work, type and duration for each phase of construction activities to include the following measures to:</p> <ul style="list-style-type: none"> (a) sequence and schedule of the earthworks/demolition works in stages and progressively with the subsequent construction activities and building works. (b) minimise site disturbance by keeping site clearance works to a minimum by retaining as much of the existing vegetation as possible. (c) pave up the bare surfaces and all construction access by concrete or milled waste or other suitable materials. (d) protect the bare slopes with close-turfing, concrete grouting, canvas or erosion control blanket. (e) protect the earth stockpiles with canvas or erosion control blanket. (f) restore ground cover over disturbed areas, which are or have become bare, as soon as possible. (g) cover up the active work surfaces with canvas sheet during rain or at the end of the workday. 	
B	<p>The Contractor shall put in place the ECM's Sediment Control Plan, which aims to capture the sediments washed down from the construction sites. Some of these sediment control measures and facilities, which must be in place before the works start, shall include but not limited to the following:</p> <ul style="list-style-type: none"> (a) concrete-lined cut-off drains (minimum C7 precast channel) along the perimeter of the construction sites. (b) site fence properly installed and embedded onto the ground along the perimeter cut-off drains (between the construction site and the cut-off drain). (c) sedimentation basins or any other sediment filtering or setting system of adequate size and sufficient numbers along the perimeter cut-off drain and before the discharge points into public drain. (d) a storage basin/tank may be required to temporarily store the large amount of rainwater falling on to the whole site before treatment. (e) a treatment system to treat silty discharge shall be provided before the discharge points into public drain. (f) turbidity curtains shall be installed along all the exposed slopes / riverbanks for works in or adjacent to water bodies, such as canals, rivers, sea or in a reclamation work. The silty discharge trapped within the turbidity curtain shall be allowed to be settled/treated and removed. 	
C	<p>The Contractor shall at the advice of his QECP, put in place a site monitoring and reporting system and ECM management system including but not limited to the following :</p> <ul style="list-style-type: none"> (a) daily ECM inspection report by the QECP appointed site personnel (b) regular site inspection by the QECP (c) continuous monitoring and recording system shall be installed at the discharge point (after ECM) before public drain (d) online website CCTV (e) online total suspended solids (TSS) monitoring system (f) online turbidity meters with alarm 	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>EARTH CONTROL MEASURES (Cont'd)</p> <p>The QECP shall submit full basis of design back up with design calculations to show clearly how the perimeter cut-off drains, silt fence, sedimentation basins, storage basin / tank and treatment system are designed and sized as well as how such design will effectively filter off silt and allow only clean water to discharge into public drains. The QECP shall also submit the design specifications on the treatment system which can effectively treat the silty discharge from the construction site. The intensity of a one-in-two year storm should be adopted for the proposed design.</p>	
B	Allow for all cost in connection with complying with the above ECM provisions.	
C	<p>VECTOR CONTROL</p> <p>The Contractor is required to implement a comprehensive and effective vector control programme for the Site which shall include all necessary measures to prevent the Site from becoming favourable to the breeding or harbouring of mosquitoes or other vectors.</p>	
D	<p>Vector control work must include the basements and all floors of the building as and when they are being constructed and shall comprise:</p> <ul style="list-style-type: none"> (1) Checking for mosquito breeding at least once a week (2) Larviciding all stagnant water using insecticides or anti-mosquito oil at least once a week (3) Thermal fogging at least once a fortnight 	
E	Thermal fogging to site offices and workmen's accommodation shall be carried out fortnightly and if the Site is located within a malaria-sensitive area, residual spraying of the walls at monthly intervals shall also be required.	
F	The Contractor's attention is also drawn to the provisions of the Control of Vectors and Pesticide act 1998, its subsidiary legislation and/or all enactment or re-enactment thereof.	
G	<p>REMOVAL OF RUBBISH</p> <p>The Contractor shall arrange and pay all fees for disposing of all rubbish, unwanted building debris, earth, rubble, chemicals, noxious or polluting matter, etc. from the Site both at regular intervals and on completion.</p>	
H	The Contractor shall provide at his own cost and expense proper bulk bins of adequate sizes at Site for storage of construction waste and debris and to make necessary arrangements for the disposal of such waste and debris to approved disposal grounds.	
I	Burning of rubbish on the Site will not be permitted.	
J	<p>WORKPLACE SAFETY AND HEALTH</p> <p>General</p> <p>The Contractor shall further to his obligations under the contract and at common law, comply with the Workplace Safety and Health Act 2006 and any subsequent amendments thereto ("WSHA") and its Regulations and any other subsidiary legislation in force for the time being (collectively "its Regulations") and shall take so far as is reasonably practicable, such measures to ensure the safety, health and welfare of any and all persons at the workplace. The Contractor in doing so shall bear all costs and expenses consequent thereon or incidental thereto.</p>	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p>General (Cont'd)</p> <p>A The Contractor shall undertake at all times throughout the progress of the works to, at his own costs and within his sole responsibility, implement and maintain all measures necessary to keep the workplace safe, without risks to health, and adequate as regards facilities and arrangements for the welfare of all persons at the workplace, or persons who may be affected by any work carried out at the workplace, even if such person(s) is/are not his employees.</p> <p>The Contractor in doing so shall, among others, throughout the progress of the works up till the conclusion of the works:</p> <p>B (1) Provide, implement and maintain all measures to keep the workplace, work processes and the facilities, including the machinery, equipment, plant, articles, substances at the workplace safe;</p> <p>C (2) Take necessary measures to ensure that all means of access to or egress from the workplace are safe and without risks to health to all persons within the workplace;</p> <p>D (3) Develop and put into practice control measures to deal with emergencies that may arise at the workplace;</p> <p>E (4) Ensure that the workers are not exposed to hazards arising out of the arrangement, disposal, manipulation, organisation, processing, storage, transport, working or use of things at the workplace, or in or near the workplace under the control of the Contractor;</p> <p>F (5) Comply with all code(s) of practice that have come into force; and</p> <p>G (6) Appoint workplace safety and health officers, co-ordinators, committees, and auditors.</p> <p>The Contractor shall provide workers with adequate instruction, information, training and supervision.</p> <p>In particular, but not limited hereto, the Contractor shall inform all his workers at the workplace that it shall be their duties to:</p> <p>H (1) Use in such manner so as to provide the protection intended, any suitable appliance, protective clothing, convenience, equipment or other means or thing provided (whether for this use alone or for use by him in common with others) for securing his safety, health and welfare while at work; and</p> <p>I (2) Co-operate with their employer(s) or principal(s) and any other person(s) to such extent as will enable his employer, principal or the other person, as the case may be, to comply with the WSHA.</p> <p>J The Contractor shall ensure that all person(s), who are required by the Minister by order published in the Gazette to attend any safety and health training course, has/have completed such safety and health training course before allowing the person(s) to perform any work for which the training is required.</p> <p>Risk Assessment</p> <p>K The Contractor shall carry out an independent risk assessment in relation to the safety and health risks posed to any person who may be affected by his undertaking in the workplace ("Risk Assessment") at his own costs and within his sole responsibility.</p> <p>L Where a joint Risk Assessment (if any) is intended, the Contractor shall co-operate with and render all assistance to the Employer in carrying out such joint Risk Assessment.</p>	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p>Risk Assessment (Cont'd)</p> <p>The Contractor shall ensure that written Risk Assessment records incorporating but not limited to the following information is provided and submitted to the Employer within one (1) month of the carrying out of the Risk Assessment:-</p> <p>A (1) Names and designations of risk assessment team members;</p> <p>B (2) Inventory of trades and/or work activities by process or location, associated with machinery, equipment and chemicals;</p> <p>C (3) Hazards identification for each work activity, and possible types of accident or incident;</p> <p>D (4) Existing risk control measures;</p> <p>E (5) Risk level for each hazard;</p> <p>F (6) Recommendations on additional risk controls required;</p> <p>G (7) Persons involved in implementing the measures on risk reduction;</p> <p>H (8) Signatures, date and designations of persons conducting risk assessment; and</p> <p>I (9) Signature, date and designation of management approving or endorsing the assessment.</p> <p>J The Contractor shall take all steps to eliminate any foreseeable risk to any person who may be affected by his undertaking in the workplace.</p> <p>K Where it is not possible to eliminate the risk referred to in the sub-clause above, the Contractor shall implement:</p> <p>(1) Such reasonable practicable measures to minimise the risk; and</p> <p>(2) Such safe work procedures to control the risk.</p> <p>L The Contractor shall take all reasonably practicable steps to ensure that any person in the workplace who may be exposed to a risk to his safety and health is informed of:</p> <p>(1) The nature of the risk involved; and</p> <p>(2) Any measure or safe work procedure implemented under sub-clause above.</p> <p>M The Risk Assessment plan shall be reviewed and revised whenever:</p> <p>(1) New information on safety and health risks surfaces; or</p> <p>(2) When there are changes to the area of work; or</p> <p>(3) After any accident or serious incident; or</p> <p>(4) Where none of the above has happened, at least once every 3 years.</p> <p>Incident Reporting</p> <p>N If any accident at a workplace occurs which leads to the death of any person, being an employee of the Contractor, the Contractor shall as soon as is reasonably practicable, but in any case, not later than 3 days from the occurrence of the accident, notify the Employer in writing of the accident, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p> <p>O If any accident at a workplace occurs which leads to the death of any person who is not at work or of any self-employed person, the Contractor shall, as soon as is reasonably practicable, but in any case, not later than 3 days from the occurrence of the accident, notify the Employer in writing of the accident, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p>Incident Reporting (Cont'd)</p> <p>A If any dangerous occurrence occurs at a workplace, the Contractor shall as soon as is reasonably practicable, but in any case, not later than 3 days from the occurrence of the accident, notify the Employer in writing of the occurrence, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p> <p>B Where an employee of the Contractor meets with an accident at a workplace and the employee is:</p> <p>(1) Granted more than 3 consecutive days of sick leave by a registered medical practitioner for that injury; or</p> <p>(2) Is admitted in a hospital for at least 24 hours for observation or treatment, The Contractor shall, as soon as is reasonably practicable, but in any case, not later than 3 days from the occurrence, notify the Employer in writing of the occurrence, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p> <p>C Where any person who is not at work or any self-employed person meets with an accident at a workplace which requires him to be taken to a hospital for treatment in respect of that injury, the Contractor shall, as soon as is reasonably practicable, but in any case not later than 3 days, notify the Employer in writing of the accident, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p> <p>D Where an employee of the Contractor suffers an occupational disease at a workplace, and the Contractor receives a written statement prepared by a registered medical practitioner diagnosing the occupational disease, the Contractor shall, as soon as is reasonably practicable, but in any case not later than 3 days, notify the Employer in writing of the diagnosis, in the form and manner as set out at the website http://www.mom.gov.sg/iReport.</p> <p>E The Contractor shall keep a record of every notification or report made by him under this Clause, for a period of three (3) years from the time of the notification or report, as the case may be. The Contractor shall furnish the Employer with such extracts of his records as the Employer may from time to time require.</p> <p>F The above is to enable the Employer to monitor and supervise the safety and health standards at the workplace and shall not be construed as the Employer's undertaking to report any incidents that had occurred at the workplace on the Contractor's behalf. The Contractor shall do whatever that is deemed to be necessary to discharge his duties under the WSHA.</p> <p>First-Aid Facilities at Workplace</p> <p>G The Contractor shall provide first-aid boxes and where there are more than 500 persons at work in a workplace, the Contractor shall also provide a first-aid room at the workplace, so as to ensure that the Workplace Safety and Health (First-Aid) Regulations 2006 has been complied with.</p> <p>H Where more than 25 persons are employed in a workplace, the Contractor shall appoint in the workplace as first-aiders who shall be readily available during working hours such number of persons as complies with the ratio specified in the Workplace Safety and Health (First-Aid) Regulations 2006.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p><u>First-Aid Facilities at Workplace (Cont'd)</u></p> <p>Where the eyes or body of any person in a workplace may come into contact with toxic or corrosive substances, the Contractor shall ensure that suitable facilities for quick drenching or flushing of the eyes and body are provided and properly maintained within the work area for emergency use.</p> <p><u>Submission of Information for Tender</u></p> <p>The Contractor shall at the time of tender submission, submit a brief summary of his proposed plan indicating how he would manage the safety and health management system in accordance with the WSHA and/or its Regulations including his perception of the risk and his proposed course of action.</p> <p>The Contractor shall prior to the commencement of any works:-</p> <p>(1) Submit his proposed safety and health management system in accordance with the WSHA and/or its Regulations which shall include but is not limited to:</p> <ul style="list-style-type: none"> (i) The safety and health policy and objectives; (ii) Management responsibilities, methods of risk management and assessment; (iii) Hazards likely to be encountered and the methods to address such hazards; (iv) Details on how the relevant information about safety and health in accordance with the WSHA and/or its Regulations is to be disseminated to all persons at the workplace; and (v) Details of how emergencies, reporting of incidents, monitoring, reviews, follow-up and preventive actions are to be carried out by whom and when. <p>(2) In the event the Contractor is required to modify the safety and health management system as may be required and so directed by the Employer (which direction may be given by the Employer through the Superintending Officer), the Contractor shall amend and/or revise such proposed safety and health management system and submit the revised safety and health management system to the Employer. Such amendment or revision shall not be construed in any way as intervention by the Employer and the Contractor remains solely responsible for the adequacy of the safety and health management system he employs.</p> <p>(3) Obtain and maintain any necessary certificate(s) of registration and/or permit(s) and/or approvals from the Commissioner for Workplace Safety and Health ("Commissioner") as are set out in the Workplace Safety and Health (Registration of Factories) Regulations 2006.</p> <p>The Contractor shall ensure that no construction work shall commence until a safety and health management system in satisfaction of the WSHA and/or its Regulations has been prepared or resubmitted by the Contractor and approved by the Employer. This shall be so even if the commencement date has passed. No extension of time and claim for loss and expense shall be allowed in respect of any such delay caused. Approval by the Employer shall not be construed or otherwise deemed as the Contractor having complied with the WSHA and/or the Regulations.</p>	

Item	Description	Amount S\$
	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p><u>Workplace Safety and Health Management Arrangements</u></p> <p>A The Contractor shall appoint a Workplace Safety and Health committee made up of representatives of both the employers and employees of the workplace, a Workplace Safety and Health Officer and Co-ordinator approved by the Commissioner, and a Workplace Safety and Health Auditor who is to audit the workplace safety and health management system of the workplace and risk assessment of all works undertaken at the workplace. The Contractor shall ensure that all such appointees are to carry out their functions and duties as prescribed under the WSHA and/or its Regulations.</p> <p><u>Common Areas</u></p> <p>B The Contractor shall be responsible for the safety and health obligations in respect of the common area, the items located in the common areas, including electric generators and motors, hoists and lifts, lifting gear, lifting appliances and lifting machines, the means of access into or egress from the common area, and any machinery or plant located in the common area as set out in the WSHA and/or its Regulations.</p> <p>C For the purposes of this clause, "common area" refers to any common property or limited common property of the building(s) that comprise one or more workplaces, which is used by persons at work in any such workplace or is used by such persons to move through.</p> <p>The Contractor shall ensure that any and all manufacturers and suppliers engaged by the Contractor comply with their respective obligations under the WSHA and/or its Regulations.</p> <p>Such obligations shall include but not limited to:</p> <p>D (1) Providing the information, including but not limited to, the precautions (if any) to be taken for the proper use and maintenance of the machinery, equipment or hazardous substance, the health hazards associated with the machinery, equipment or hazardous substance and the information relating to and the results of any tests or examinations of the machinery, equipment or hazardous substance relevant to its safe use; and</p> <p>E (2) Ensuring that the machinery, equipment or hazardous substance is safe and without risk to health when properly used.</p> <p>The Contractor shall ensure that any and all persons who erect, install or modify machinery or equipment and persons in control of machinery for use at work comply with their respective obligations under the WSHA and/or its Regulations.</p> <p>These obligations include but are not limited to:</p> <p>F (1) Ensuring, so far as is reasonably practicable, that the erection, installation or modification was in accordance with the information supplied by the designer, manufacturer, or supplier of the machinery or equipment regarding its erection, installation or modification, provided that it is reasonable for the person to rely on such information;</p> <p>G (2) Ensuring that machines moved by mechanical power are maintained in a safe condition; and</p> <p>H (3) Ensuring that the precautions to be taken for the safe use of the machinery and the health hazards associated with the machinery is available to any person using the machinery.</p>	

Item	Description	Amount S\$
	<p><u>WORKPLACE SAFETY AND HEALTH (Cont'd)</u></p> <p><u>Insurance</u></p> <p>A The Contractor shall ensure that any and all Insurance policies taken up by him including but not restricted to the Third Party Liability Policy provide adequate coverage to cover the liability of any and all persons engaged by the Contractor for their failure to exercise their respective duties, functions and powers in compliance with the WSHA and/or its Regulations.</p> <p><u>Contractor's Sole Responsibility</u></p> <p>B The Contractor shall be solely liable for any and all liability, expenses, loss, damage and claims whatsoever arising out of any breach, default, action, failure to carry out action, or any contravention or offence under the WSHA and/or its Regulations by the Contractor and/or persons engaged by the Contractor.</p> <p>C The Contractor shall under no circumstances be entitled to any additional payment and/or extension of time or any other recourse against the Employer if the Contractor is served with any remedial order or stop-work order or suspension or withdrawal of any certificate issued by the Commissioner.</p> <p>D The Contractor shall not under any circumstance be relieved of his duties or responsibilities under the WSHA and/or its Regulations. Unless the Contractor has made a written request of the Employer for more information, the Contractor shall be deemed satisfied with the information provided by the Employer.</p> <p><u>Employer's Right to Investigate</u></p> <p>E The Employer shall at any time and without prior notification to the Contractor, be entitled to carry out checks and inspections of the work procedures and measures on Site to ascertain whether there is any contravention of the provisions of the WSHA and/or its Regulations.</p> <p><u>Suspension of Works and Removal of Workers</u></p> <p>F Where in the Employer's opinion, there is a contravention of any provision of the WSHA and/or its Regulations, the Employer shall be entitled, at any time by the issuance of a written notification to request the Contractor and/or its sub-contractors to stop work until the unsafe situation is rectified.</p> <p>G The Employer and/or its consultants shall be entitled to require the Contractor to remove any workers, whether engaged by the Contractor or its sub-contractors, from the site if they are found to be in contravention of any provisions of the WSHA and/or its Regulations.</p> <p>H The Employer shall also be entitled to demand improvements in the safety and health measures implemented on the Site, where such are deemed inadequate by the Employer or the Superintending Officer.</p> <p>I In such events, the Contractor and/or its sub-contractors shall not have any claim for additional costs or extension of time or any kind of recourse whatsoever against the Employer.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>WORKPLACE SAFETY AND HEALTH AUDIT</u></p> <p>The Contractor shall employ an approved independent consultancy company to conduct inspections and audits on the following:</p> <ul style="list-style-type: none"> (1) the safety and health management system of the workplace; (2) any risk assessment relating to the workplace or the work carried out in the workplace; (3) any work process at the workplace; and (4) the workplace. <p>Such inspections and/or audits shall be carried out at quarterhalf yearly intervals or other agreed interval for the duration of the Time for Completion.</p>	
B	<p>The Contractor shall deliver the inspection and/or audit reports to the Superintending Officer within seven days from the date of receipt of each of the reports from the consultancy company. Such reports shall include the observations (and corrective actions required) and the recommendations necessary for safety and health in the workplace. Such recommendations for improvement shall be implemented immediately by the Contractor.</p>	
C	<p>The inspection and/or audit shall not, in any way whatsoever, relieve the Contractor or his duty to comply with all requirement of any statutory act or regulation and any amendment or re-enactment thereto or any additional measures that may be required to ensure the adequacy and sufficiency of the safety and health provisions at the Site.</p>	
D	<p><u>DESIGN FOR SAFETY RECOGNITION SCHEME</u></p> <p>The Works shall be evaluated under the Workplace Safety and Health ("WSH") Council, Design for Safety (DfS) Recognition Scheme ("DfS Scheme").</p>	
E	<p>The Contractor shall comply with the provisions of the Workplace Safety and Health (Design for Safety) Regulations ("DfS Regulations"), Guidelines on Design for Safety in Buildings and Structure ("DfS Guidelines") and any written documentation published by the WSH Council which relates to the implementation of the DfS Scheme, including any amendment and revision which may be introduced in relation thereto in so far as these apply to the Works.</p>	
F	<p>The Contractor shall ensure that the Works achieve a level of performance that meets the DfS Award</p>	
G	<p>The Employer has appointed the Design-for-Safety Co-Ordinator ("DfS Co-Ordinator") to facilitate the DfS process. The Contractor including his consultants and sub-contractors shall participate fully, co-operate and render all assistance and attend all design-for-safety review meetings as and when required by the DfS Co-Ordinator.</p>	
H	<p>The Contractor shall as far as reasonably practicable, consider and eliminate all foreseeable design and construction risks associated with the methods of working, temporary works design and designs provided by specialist sub-contractors. Where it is not reasonably practicable to eliminate the said risks, the Contractor shall address and propose how the residual risks are to be mitigated in the proposal for Design for Safety System ("DfS System").</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>DESIGN FOR SAFETY RECOGNITION SCHEME (Cont'd)</u></p> <p>The Contractor shall prepare and submit with the Tender, the DfS System which shall include but not limited to :</p> <ul style="list-style-type: none"> (a) Design consideration and risk(s) associated with the design consideration (b) Hazards identified and if such hazards can be designed out (c) Risk assessment rating of (b) (d) Proposed control measures (e) Residual risk rating taking into consideration (d) <p>Nothing in this provision shall limit or modify the Contractor's obligations in so far as they relate to the compliance with the statutory requirements by the Contractor.</p>	
B	Within 14 days from the date of the Letter of Acceptance, the Contractor shall revise, refine and elaborate the DfS System proposed at the time of Tender and extend a copy to the Architect / Superintending Officer and DfS Co-Ordinator.	
C	Prior to the commencement of works, the Contractor shall carry out a design review together with the DfS Co-Ordinator, designers for temporary works and the specialist consultants to identify and address or mitigate the risks and hazards associated with the methods of working, temporary works design and designs provided by specialist sub-contractors.	
D	The engagement of such DfS Co-ordinator or compliance of the Contractor with the requirements of the DfS Co-ordinator shall not discharge, reduce and/or modify the Contractor's responsibility and liability for the adequacy and fitness in respect of any part of the Works designed by him or any Designated or Nominated Sub-Contractor.	
E	For the avoidance of doubt, the Employer shall make the necessary application for the Works to be assessed under the DfS Scheme and bear the application fees in connection therewith.	
F	<u>DESIGN FOR SAFETY</u>	
G	The Contractor shall comply with the provisions of the Workplace Safety and Health (Design for Safety) Regulations ("DfS Regulations") and Guidelines on Design for Safety in Buildings and Structure ("DfS Guidelines") including any amendment and revision which may be introduced in relation thereto in so far as these apply to the Works.	
H	The Employer has appointed the Design-for-Safety Co-Ordinator ("DfS Co-Ordinator") to facilitate the DfS process. The Contractor including his consultants and sub-contractors shall participate fully, co-operate and render all assistance and attend all design-for-safety review meetings as and when required by the DfS Co-Ordinator.	
	The Contractor shall as far as reasonably practicable, consider and eliminate all foreseeable design and construction risks associated with the methods of working, temporary works design and designs provided by specialist sub-contractors. Where it is not reasonably practicable to eliminate the said risks, the Contractor shall address and propose how the residual risks are to be mitigated in the proposal for Design for Safety System ("DfS System").	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>DESIGN FOR SAFETY (Cont'd)</u></p> <p>The Contractor shall prepare and submit with the Tender, the DfS System which shall include but not limited to :</p> <ul style="list-style-type: none"> (a) Design consideration and risk(s) associated with the design consideration (b) Hazards identified and if such hazards can be designed out (c) Risk assessment rating of (b) (d) Proposed control measures (e) Residual risk rating taking into consideration (d) <p>B Nothing in this provision shall limit or modify the Contractor's obligations in so far as they relate to the compliance with the statutory requirements by the Contractor.</p> <p>C Within 14 days from the date of the Letter of Acceptance, the Contractor shall revise, refine and elaborate the DfS System proposed at the time of Tender and extend a copy to the Architect / Superintending Officer and DfS Co-Ordinator.</p> <p>D Prior to the commencement of works, the Contractor shall carry out a design review together with the DfS Co-Ordinator, designers for temporary works and the specialist consultants to identify and address or mitigate the risks and hazards associated with the methods of working, temporary works design and designs provided by specialist sub-contractors.</p> <p>E The engagement of such DfS Co-ordinator or compliance of the Contractor with the requirements of the DfS Co-ordinator shall not discharge, reduce and/or modify the Contractor's responsibility and liability for the adequacy and fitness in respect of any part of the Works designed by him or any Designated or Nominated Sub-Contractor.</p>	
F	Keep the approaches to the Site free from excavated materials, mud and debris.	
G	Maintain public and private roads, footpaths, roadside drains, kerbs and the like and make good any damage caused including that caused by sub-contractors and suppliers and pay all costs and charges in connection therewith.	
H	<p><u>PUBLIC AND PRIVATE SERVICES</u></p> <p>Approximate routes and locations of the existing services are shown on Mechanical, Electrical and Plumbing (MEP) Services Installations Drawings for reference and may be taken as a guide only. The Employer does not warrant that the drawings are representative of the actual routes and/or locations of the services on Site. It is at the risk of the Contractor if the information differs.</p>	
I	The Contractor must ascertain and confirm for himself the exact routes and locations of all existing services whether or not shown on the Drawings and/or included in the Tender Documents. Prior to commencement of any Works, the Contractor shall carry out extensive site investigations and services detections and make all necessary and/or additional records by means of cable detection equipment, exploratory trial holes and/or other approved methods. All cables and services detections must be carried out by licensed cable detection workers.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	PUBLIC AND PRIVATE SERVICES (Cont'd) The Contractor shall provide a detailed statement on the methods/procedures adopted, survey plans, reports, etc and such other information as deemed necessary, all duly endorsed by the Contractor, in duplicate for the information of the Superintending Officer. Modify to comply with the Superintending Officer's comments and re-submit four (04) sets to the Superintending Officer.	
B	Services which are detected in the course of the investigations or discovered during the progress of the Works subsequent to the initial investigations shall be immediately reported to the Superintending Officer and the Authorities concerned.	
C	Notwithstanding the investigations carried out, the Contractor shall be solely responsible for making good any damage due to any cause whatsoever at his own expense whether accidental or otherwise and pay all costs and charges in connection therewith.	
D	Allow for sequencing the Works to take due account of any diversion works to be undertaken by the various Authorities including extending all necessary assistance and co-operation and the provision of suitable access to the Site for their workmen or contractors. The charges levied by the various Authorities for service diversions will be borne by the Employer.	
E	Protect, uphold and maintain all pipes, ducts, stormwater drains, sewers, electrical and telephone cables and the like during the execution of the Works. The Contractor is to make good any damage due to any cause at his own expense or pay all costs and charges in connection therewith.	
F	WATER FOR THE WORKS Provide clean, fresh water for the Works including that required by all sub-contractors including nominated sub contractors; insofar where applicable, and temporary arrangements for private water meters (including all takings of all readings as required), storage and distribution around the Site in accordance with the Public Utilities Board's regulations and to the satisfaction of the Superintending Officer. Pay all costs and charges in connection therewith.	
G	TEMPORARY LIGHTING AND POWER FOR THE WORKS Provide temporary artificial lighting and electric power for the Works including that required by sub-contractors in accordance with the Electricity Regulation 2002 and the current editions of Singapore Standard CP5 : 1998 Code of Practice for Electrical Installations and Singapore Standard CP 88 : Part 1 : 2001 Code of Practice for Temporary Electrical Installations - Construction and Building Sites.	
H	All electrical installations shall be carried out under the responsibility of licensed electrical workers.	
I	Provide all necessary private meters (including takings of all readings as required) and temporary arrangements for distribution around the Site including that required by all sub-contractors, to the satisfaction of Superintending Officer.	
J	Provide, install and maintain all necessary temporary lighting during hours of darkness for construction, safety or any other purposes.	
K	Pay all costs and charges in connection with temporary lighting and power for the Works. Alter, shift and adapt from time to time as necessary.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>WATER AND ELECTRICITY FROM PERMANENT INSTALLATION AND UTILITY BILLS</u></p> <p>A Water and electricity for test runs and commissioning of all mechanical and electrical services shall be obtained from permanent installations. The Contractor shall apply, pay all fees, and obtain all necessary certificates and approvals for connections to the permanent installations. The Employer shall reimburse the Contractor all fees in connection therewith.</p> <p>B The Contractor shall bear all costs of utility charges (including surcharges) plus all fees (refuse fee, sanitary appliances fee, water-borne fee, etc) and taxes as shown on the bills from SP Services Ltd (SP) and/or other licensed retailers for the whole of the period commencing from connections to the permanent installations until the date of completion stated in Certificate of Substantial Completion referred to in Clause 17 of the Conditions of Contract. The Contractor shall settle such bills direct with SP and/or other licensed retailers on the Employer's behalf, and where in default, the Employer shall deduct such sum or sums direct from all monies due to the Contractor under the Contract.</p>	
C	<p><u>TEMPORARY LIGHTNING PROTECTION SYSTEM</u></p> <p>Provide an efficient temporary lightning protection system for the structure during construction and for all the hoists and cranes. The lightning protection system is to be of the type which conveys any lightning discharge safely to the ground without danger to the building, machinery or occupants and to the requirements of the Authorities.</p>	
D	<p><u>TEMPORARY ROADS AND TEMPORARY WORKS</u></p> <p>Provide, maintain and alter as necessary all temporary roads, tracks, paths, hardstandings, pavement crossings, culverts and other temporary works and the like including those required by sub-contractors. Reinstate all ground and all work disturbed.</p>	
E	The Contractor shall comply with all relevant Authorities' requirements and regulations pertaining to temporary works.	
F	Pay all fees and charges levied in connection with all temporary works, temporary buildings and facilities.	
G	<p><u>TEMPORARY HOARDINGS AND SAFETY NETTING</u></p> <p>Provide and maintain all necessary temporary fencing, hoarding, gates, fans, planked footways, guard rails, gantries, safety netting, warning lights, notices and directional signages for the proper execution of the Works, the security of the Site, the protection of the public and the occupants of any adjoining premises and for meeting the requirements of any Government or public authority. Alter, shift and adapt from time to time as necessary and clear away on completion.</p>	
H	The whole of the Site is to be enclosed by a hoarding (with gates) constructed of close boarded timber 1.80m high painted on all exposed surfaces in patterns and colours to the approval of the Superintending Officer.	
I	The Contractor shall provide protective hoarding, ie. hoarding with overhead shelter, at locations as shown in the Drawings. The protective hoarding shall be designed in accordance with the relevant statutory requirements by a Professional Engineer (PE) employed by the Contractor, subject to the approval of the Superintending Officer. A typical detail of the protective hoarding is shown in the Architectural Construction Details Manual for reference.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	<u>TEMPORARY HOARDINGS AND SAFETY NETTING (Cont'd)</u> Weatherproof recessed luminaire shall be provided within the ceiling of the protective hoarding at a distance of about 3m apart and all wiring shall be in 20mm PVC conduits.	
B	The position of the site hoarding may be adjusted as instructed by the Superintending Officer, upon the commencement of the Works. The Contractor shall be required to make some adjustment of the protective hoarding to suit the site conditions.	
C	The Contractor shall provide access with lighting (covered for outdoor area) and to have a minimum of 300mm roof overhang to the following areas at all time, but not limited to: (a) Foyer 1 Area on 1st and/or 2nd Storey (b) Foyer 2 Area on 1st and/or 2nd Storey (c) Hall 1 to Hall 6 (d) Hall 7 to Hall 10 (e) Max Atria Gallery (f) Pre-Function Hall to Hall 1 to Hall 6 (g) 2nd Storey Podium Mezzanine (h) Atrium (i) External F&B Area (j) Car-park Lots (k) Existing Family Friendly Facilities Area (l) 1st Storey Passenger Lift within Foyer 2 to existing 2nd Floor Atrium Walkway Prayer Room (m) Prayer Room (n) ECC on 1st and/or 2nd Storey (o) Lift Lobby (p) Cargo Lift Area at 2nd Storey (q) Kitchen Area	
D	There is to be no claim for time and cost for additional hoarding as required for the protection of the public and the occupants of any adjoining premises due to the Contractor's work and for the meeting the requirements of any Government or Public Authority. Alter, shift and adapt from time to time as necessary and clear away upon completion.	
E	<u>SIGNBOARD</u> Provide and maintain in a position approved by the Superintending Officer a signboard of 1000mm x 1800mm in size constructed in aluminium showing the title of the Works, the names of the Employer, Consultants and the Contractor and of such sub-contractors as may require it. Remove on completion of the Works.	
F	<u>ADVERTISEMENTS</u> No advertisements shall be displayed without the written approval of the Superintending Officer. Unauthorised advertisements shall be removed promptly by the Contractor.	
G	<u>TEMPORARY BUILDINGS AND FACILITIES FOR THE CONTRACTOR</u> Subject to the following provisions, the Contractor shall provide and maintain in positions to be agreed with the Superintending Officer temporary buildings for the Contractor's staff and the use of workmen employed on the Site including offices, latrines and bathrooms, canteen, workers' quarters, etc. complete with electricity, water and drainage services. Alter shift and adapt from time to time as necessary.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p>TEMPORARY BUILDINGS AND FACILITIES FOR THE CONTRACTOR (Cont'd)</p> <p>No workers' quarters are allowed to be set up within the Site unless the intent has been made known to the Employer at the time of tender and specific consent has been obtained from the Employer prior to the award of the Contract. Any approval by the Employer shall not be construed as qualifying in any way the Contractor's responsibility to ensure that clearance is obtained from the relevant authorities in regards to the proposed workers' quarters.</p> <p>B Where the Employer assents to the erection of the workers' quarters on Site, the Contractor shall ensure that the design, construction and installation and the living conditions of the workers' quarters comply with the relevant codes of practices, recommended good practices and the requirements of the relevant authorities.</p> <p>C The Contractor shall be liable for and shall indemnify the Employer fully against any penalty, claims or cost which may be suffered by the Employer on account of the Contractor's breach of any of these provisions.</p> <p>SHEDS</p> <p>D Provide and maintain in positions to be agreed with the Superintending Officer watertight temporary sheds for the storage of materials, tools and equipment for the use of all persons employed by the Contractor. Alter, shift and adapt from time to time as necessary.</p> <p>E Sheds used for the storage of cement, lime and other perishable materials shall have raised floors.</p> <p>F All petroleum, explosives and flammable materials shall be stored in fire-proof buildings and precautions taken with regard to siting and fire risks.</p> <p>TEMPORARY BUILDINGS AND FACILITIES FOR THE CONSULTANTS</p> <p>G Provide and maintain separate temporary office accommodation for the exclusive use of the Superintending Officer's Representative and assistants and the Consultants of not less than 50 square metres in floor area and ceiling height not less than 2.1m.</p> <p>H Provide and maintain temporary office accommodation of not less than 25 square metres in floor area and ceiling height not less than 2.1m for site meetings. The room shall be complete with air-conditioning, electric lighting and conference table and chairs to accommodate 20 persons.</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>TEMPORARY BUILDINGS AND FACILITIES FOR THE CONSULTANTS (Cont'd)</u></p> <p>Provide and maintain separate temporary office accommodation for the exclusive use of Resident Engineer (RE) and/or Resident Technical Office (RTO) of not less than 50 square meter in floor area and ceiling height not less than 2.1m.</p> <p>Provide the following for each RE and/or RTO:</p> <ul style="list-style-type: none"> a) 1 lock-up desk with chair b) Stationery c) 1 filing cabinet d) 1 lockable steel cupboard e) 1 set of personal computer (min. iCore 5 processor) with email & internet access, latest Authorised and Licenced Microsoft Professional Software f) 1 Telephone g) 1 hand held walkie-talkie set h) 1 set of PPE (Safety helmet and boots) <p>Provide the following within RE and/or RTO's office:</p> <ul style="list-style-type: none"> a) 3 open shelves b) 3 drawing shelves c) 1 drawing rack d) 2 measuring tapes (5m each) e) 1 no. A4 and A3 colour printer f) 1 no. photocopying machine g) 1 no. facsimile machine h) 3x2m white board with white board markers i) 1 Digital Camera (min. 10 mega pixel with min. 28 to 105mm zoom function) 	
B	Offices are to be complete with air-conditioning, washing facilities, water, electric lighting and power, benches, tables, chairs, cabinets, other furniture including the provision of sufficient drawing racks and shelving for the storage of documents, drawings and records to be maintained by the Qualified Persons as prescribed in the building regulations or required by the authorities from time to time.	
C	Provide and maintain temporary modern sanitary accommodation for the exclusive use of the Superintending Officer's Representative and assistants and the Consultants.	
D	Redecorate, alter, shift and adapt temporary buildings from time to time as necessary.	
E	Provide and maintain for the exclusive use of the Superintending Officer's Representative and assistants and the Consultants ten (10) safety helmets and ten (10) pairs of safety boots of assorted sizes as required.	
F	Provide, when required, for the use of the Superintending Officer's Representative and assistants and the Consultants a theodolite, level and other instruments together with surveying assistance.	
G	Provide attendance as deemed necessary by the Superintending Officer.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>TEMPORARY BUILDING FOR DISPLAY OF APPROVED SAMPLES AND PROTOTYPES</u></p> <p>A Provide and maintain temporary accommodation of not less than 20 square metres in floor area and ceiling height not less than 2.1m for the storage/display of approved samples and prototypes of materials and goods. Provide racks, galvanised steel shelves and other furniture as required by the Superintending Officer.</p> <p>B Label and arrange samples and prototype materials and goods to the Superintending Officer's satisfaction.</p> <p>C Alter, shift and adapt as necessary from time to time including periodical disposal of redundant samples and goods.</p>	
D	<p><u>TEMPORARY TELEPHONES</u></p> <p>D Provide and maintain a telephone service to the Contractor's site office, to the offices of such other of the Contractor's site staff as may be necessary and an independent service comprising three exchange lines to the temporary offices of the Superintending Officer's Representative and assistants and the Consultants for the full period of the Works. Pay all charges and expenses in connection therewith.</p>	
E	<p><u>SITE MEETINGS</u></p> <p>E The Contractor shall attend periodic site meetings arranged by the Superintending Officer and shall ensure attendance by sub-contractors as required. The Contractor shall make available for attendance at meetings a responsible representative conversant with the Works and with authority to accept and make decisions.</p>	
F	<p>F The Contractor shall submit to the Superintending Officer and other Consultants before each meeting an agenda listing site problems, variations instructed by the Superintending Officer, progress of the Works and any other matters for discussion during the meeting.</p>	
G	<p><u>PROGRAMME CHARTS AND RETURNS</u></p> <p>G Within 30 days of the acceptance of his tender, the Contractor shall submit for approval by the Superintending Officer, a programme related to the Time for Completion showing the timing and sequence in which he proposes to carry out the various parts of the Works including those of all sub-contractors and Nominated Sub-Contractors.</p> <p>The Contractor shall expand the programme to incorporate the following:</p>	
H	<p>(1) All relevant dates for submission of shop drawings for:</p> <ul style="list-style-type: none"> - Architectural finishes (which shall include the location of all expansion, contraction, construction and similar movement joints, and the proposed method of forming such joints and the materials to be used); - Structural steelwork; - Precast concrete work; - Metal windows; - Curtain walling; - Pressed or ornamental metalwork; and - All mechanical and electrical installations and co-ordination drawings as described in the item on shop drawings and co-ordination drawings set out elsewhere in this Section. 	
I	<p>(2) Dates for approval of the shop drawings and co-ordination drawings.</p>	
J	<p>(3) Dates for ordering, anticipated delivery dates and dates for installation of major plant and equipment.</p>	
K	<p>(4) Dates and details of all sub-contractors and Nominated Sub-Contractors' works.</p>	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
	<u>PROGRAMME CHARTS AND RETURNS (Cont'd)</u>	
A	The Contractor shall expand the programme to incorporate the following: (Cont'd) (5) Dates for completion of the works which are required to enable the various submissions to be made for application of a Temporary Occupation Permit by the Employer.	
B	The programme shall include a bar chart, critical path analysis and be in sufficient detail to permit a precise week-by-week comparison between the work as programmed and the actual progress.	
C	The programme shall be kept up to date and a copy made available on Site at all times for inspection.	
D	The Contractor shall provide micro programme for the various areas as required by the Superintending Officer for his review and approve after award of the Contract.	
E	The Contractor shall also provide catch-up programme if in the opinion of the Superintending Officer the actual progress of the Works are well behind the programme. All costs and expenses in connection therewith shall be deemed to have been allowed by the Contractor in his Contract Sum.	
F	The Contractor shall also provide a construction cashflow based on the programme submitted, incorporating the actual and anticipated values of work executed and materials on site. The Contractor shall update the cashflow as required and as necessary at such time as the programme is revised. Cashflows shall be submitted together with the programme(s) to the Superintending Officer.	
G	Report daily to the Superintending Officer on the number of operatives in each trade employed on the Works including those of all sub-contractors.	
H	Records of progress shall be kept by the Contractor and submitted to the Superintending Officer at weekly intervals.	
	<u>BCA GREEN MARK</u>	
I	The Works shall be evaluated under the Building and Construction Authority (BCA) Green Mark Scheme.	
J	The Contractor shall comply with the provisions of the Building Control (Environmental Sustainability) Regulations, Code for Environmental Sustainability of Buildings ("the Code") and BCA's Green Mark Assessment Criteria including any amendment and revision which may be introduced in relation thereto, in so far as these apply to the Works.	
K	The Contractor shall ensure that the Works achieve a level of environmental performance that meets the BCA Green Mark Goldplus.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>BCA GREEN MARK (Cont'd)</u></p> <p>The Contractor is encouraged to suggest economically viable amendments to the project requirements which may result in either reduction in environmental impact or improvement in the environmental performance of the key areas identified in the Green Mark Assessment Criteria. These shall deem to include but not limited to selecting products and materials and/or the adoption of construction techniques and processes which would result in:</p> <ul style="list-style-type: none"> (a) Reductions in energy consumption; (b) Reduction in mains water consumption; (c) Reductions in waste; (d) Reduction in materials from non-renewable sources; (e) Reductions in CO2 emissions; and (f) Reductions in commercial vehicle movements <p>Nothing in this provision shall limit or modify the Contractor's obligations in so far as they relate to the compliance with the statutory requirements or the relevant codes and standards by the Contractor.</p>	
B	The Contractor shall additionally monitor, document and provide to the Superintending Officer the trending of actual consumption of the afore-mentioned performance indicators and any others, as the case may be, against the set targets and all information as may be reasonably requested relating to the environmental impact of the choice of materials or goods used for the Works.	
C	The Superintending Officer shall monitor and assess the Contractor's performance at regular intervals by reference to any performance criteria which may be stated in the Specifications or other parts of the Contract Documents. In the event that the Superintending Officer considers that any of the performance criteria or set targets may not be met, the Contractor shall submit his proposals for improving his performance including taking all such steps as may be directed by the Superintending Officer. The Contractor shall bear all cost and expense in connection therewith.	
D	<p>The assessment shall be conducted by BCA. For the assessment to be conducted, the Contractor shall upon request by the assessors, provide at his own cost the following documents/records which might be necessary to verify that the Works meet the intent of the assessment criteria and certification level:</p> <ul style="list-style-type: none"> (a) Extracts of the tender specifications and other forms of documentary proof showing the proposed green practices or features adopted; (b) Relevant drawings depicting the areas, locations or types of green features implemented; (c) Summary sheets listing the detailed breakdown and extent of implementation; (d) Calculations, worksheets or other data in the format prescribed under the Code; and (e) Any documentary evidence as may be required and made in such manner and form as required by BCA. 	
E	For the avoidance of doubt, the Employer shall make the necessary application for the Works to be assessed under the BCA Green Mark Scheme and bear the application fees for the initial assessment. In the event that any subsequent re-assessments are required, all costs in connection therewith shall be borne by the Contractor.	
	To Collection	

PRELIMINARIES

Item	Description	Amount S\$
A	<u>TEMPORARY OCCUPATION PERMIT (TOP)</u> The Contractor shall programme and complete the Works (including all Nominated Sub-Contractors' work) in such a manner that the Superintending Officer can apply for Temporary Occupation Permits (TOP) for the building as per Appendix TF/B - Schedule of Phased Completion for the Works.	
B	All works to enable the various submissions to be made for the application of a TOP by the Superintending Officer must be completed to his satisfaction at a date not later than four (4) weeks prior to the expiry of the Time for Completion of the Works (in phases).	
C	<u>SHOP DRAWINGS AND CO-ORDINATION DRAWINGS</u> The Contractor shall provide the Superintending Officer with full and complete shop drawings for all architectural finishes, structural steelwork, precast concrete work, metal windows and curtain walling, pressed or ornamental metalwork, plumbing, electrical, air-conditioning, fire protection, mechanical, lift and escalator installations and all other necessary or special parts of the structure or its equipment or finishes.	
D	Shop drawings for architectural finishes shall include the location of all expansion, contraction, and similar movement joints, and the proposed method of forming such joints and the materials to be used.	
E	The Contractor shall also produce fully co-ordinated drawings of the mechanical, electrical and other services installations and of their relationship with the structure.	
F	All drawings shall be submitted in ample time for checking and for resubmission of any amendments desired, so as not to in any way jeopardise the time for completion of the Contract.	
G	No work shall be carried out until the relevant shop drawings and/or co-ordination drawings have been approved. The approval of such drawings by the Superintending Officer is solely an approval of subject matters in principle and does not constitute checking of detail measurements or acceptance of auxiliary units or materials unless specifically mentioned in writing by the Superintending Officer.	
H	The Contractor shall not be relieved of his responsibilities for executing the Works in accordance with the Contract even though the shop drawings and/or co-ordination drawings have been approved by the Superintending Officer, Structural Engineer or Mechanical Engineer.	
I	Shop drawings and/or co-ordination drawings shall be provided or revised as necessary for all variations to the Works.	
J	<u>RECORD DRAWINGS</u> The Contractor shall make accurate records of those parts of the Works which will become hidden by further progress, as may be directed by the Superintending Officer. Such records shall be checked and verified by the Superintending Officer while the work is open for inspection. Records shall be entered by the Contractor on prints of drawings which will be made available to him for this purpose, amplified by him with supplementary dimensioned sketches and handed to the Superintending Officer as soon as practicable. All costs and expenses in connection therewith shall be borne by the Contractor.	
K	<u>AS-BUILT DRAWINGS</u> As-built drawings shall be prepared and presented in a format approved by the Superintending Officer.	
L	Draft as-built drawings shall be submitted progressively as the Works are completed to enable the Superintending Officer to review the drawings.	
To Collection		

PRELIMINARIES

Item	Description	Amount S\$
A	<u>AS-BUILT DRAWINGS (Cont'd)</u> The Contractor shall keep accurate records of the actual formation levels throughout the contract period. This information shall be submitted to the Superintending Officer and shall form the basis of the as-built record of the completed work.	
B	Final as-built drawings comprising one set of reproducible transparencies and two sets of linen prints shall be submitted to the Superintending Officer within 14 days from the Date of Substantial Completion.	
C	<u>OPERATING AND MAINTENANCE INSTRUCTIONS</u> Obtain and hand over to the Superintending Officer a complete set of operating and maintenance instructions for items incorporated in the Works.	
D	<u>GUARANTEES AND MAINTENANCE INSTRUCTIONS</u> The Contractor shall assign to the Employer any guarantees and/or quotations for future maintenance offered by plumbing, mechanical, electrical or other sub-contractors and suppliers if and when such guarantees and/or quotations extend beyond the Defects Liability Period of the Main Contract.	
E	<u>PROGRESS PHOTOGRAPHS</u> Provide for colour photographs to show the Works in progress. Photographs shall be taken at weekly intervals throughout the construction period. Each time, 1 set of progress photographs (with 2 photos per A4 size paper) affixed in albums and 1 CD-ROM, dated and suitably captioned shall be supplied to the Superintending Officer.	
F	Locations of the photographs to be taken shall be agreed with the Superintending Officer. Each photograph shall be marked with the description of the photograph and location from which it was taken.	
G	The ownership and copyright of all photographs and negatives shall be vested in the Employer and are not to be used without his permission under any circumstances. Negatives and prints shall be handed over to the Superintending Officer monthly.	
H	<u>PERFORMANCE GUARANTEE</u> The security deposit referred to in Clause 4.5 of the Conditions of Contract, if provided by way of a guarantee from a bank or insurer shall be identical to the specimen annexed to this Section as Appendix SECT1/A.	To be priced in Final Summary
I	<u>PRODUCT/WORKMANSHIP INDEMNITIES AND WARRANTIES</u> Within one month from the award of the Contract or relevant sub-contract, the Contractor shall submit to the Superintending Officer the product/workmanship indemnities and warranties in accordance with the specimens annexed to the Specification.	
J	Where the Contractor is a private limited or limited company, the indemnities and warranties shall be executed under seal and the affixation of the common seal must be witnessed by two company directors or a company director and the company secretary.	
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>PRODUCT/WORKMANSHIP INDEMNITIES AND WARRANTIES (Cont'd)</u></p> <p>When submitting the indemnities and warranties, the Contractor shall be required to provide, and shall cause the Nominated Sub-Contractor and/or Specialist to provide, a copy of the Board of Directors' resolution confirming that:</p> <ul style="list-style-type: none"> (1) the signatories are the respective company directors or a company director and the company secretary of the Contractor, the Nominated Sub-Contractor and the Specialist as the case may be, and (2) they are authorised to execute the indemnities and warranties and witness the affixing of the common seal. 	
B	<p>The following are indemnities and warranties (if applicable) are to be submitted by the Contractor which include but not limited to:</p> <ul style="list-style-type: none"> (a) Membrane Panel Roofing to Flat Roofs (10 years) (b) Profiled Sheet Steel Roofing (10 years) (c) Waterproofing / Watertightness of Deck Areas, Landscaping, Planters Areas (10years) (d) Waterproofing / Watertightness of External Walls (5 years) (e) Aluminium Works and Glazing (10 years) (f) External Wall Cladding (10 years) (g) Decorative Stone and Rock Works (5 years) (h) Galvanising to Metalwork (10 years) (i) Paintings to External Metalwork (5 years) (j) Internal Plastering Works (3 years) (k) Paintwork and Coatings to Internal Render (3 years) (l) Painting to Internal Metalwork (3 years) (m) Paintwork and Coatings to External Render (5 years) (n) Tiles Adhesives and Bonding Agents (5 years) (o) Floor Hardeners / Dust Proofer (5 years) (p) Carpark Surface Coating (5 years) (q) External Precast Concrete Cladding (5 years) (r) Localised Roof Repair (10 years) <p>The Contractor shall refer to the Tender Documents for other indemnities and warranties that are required to be submitted to the Employer.</p>	
C	<p><u>HOUSEKEEPING OF THE SITE</u></p> <p>The Contractor shall be responsible in ensuring high acceptable standards of daily housekeeping and the cleanliness of the Site for the whole duration of the Works subject to the approval of the Employer, SO adn Sin Expo Operator. The Contractor shall take all necessary precautionary measures to ensure that all staircases, corridors and access routes are to be kept clean and unobstructed at all times. The Contractor shall also refer to Appendix SECT1/H - Singapore EXPO House Rules and Regulations for more details on the housekeeping of the Site.</p>	
D	<p><u>PROTECTING THE WORKS</u></p> <p>Provide for carefully covering up and protecting the Works and materials from inclement weather.</p>	
E	<p>The Contractor shall provide full and adequate protection for all finished surfaces and for all materials subject to injury or staining and shall be responsible for making good all damage done to such finished surfaces and materials until the Works are handed over complete.</p>	
		To Collection

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>PROTECTING THE WORKS (Cont'd)</u></p> <p>The protection shall be applied or provided as soon as a surface is finished and/or material arrive on the Site or as may be otherwise desirable. Such protection shall be maintained in effective condition throughout the course of the Works.</p> <p><u>SAFEGUARDING THE WORKS</u></p> <p>B Safeguard the Works, materials and plant against damage or theft including all necessary watching and lighting for the security of the Works and the protection of the public. Provide accommodation and other facilities for any watchmen/security guards so required.</p> <p>C The Contractor shall be fully responsible for loss or damage to Nominated Sub-Contract Works and Direct Contract Works which have been fully, finally and properly incorporated into the Works and is to cover up, case and protect their work. The Contractor shall also be responsible for loss or damage to all materials or goods on Site for use in the Nominated Sub-Contract Works and Direct Contract Works.</p> <p><u>FIRE PROTECTION DURING CONSTRUCTION</u></p> <p>D Provide and keep in working order adequate fire fighting equipment for emergency use.</p> <p>E Local Authorities require fire rising mains to be provided when buildings exceed 24m in height. Such rising mains shall be installed progressively as the building attains height during the course of construction. Provide and install all inlets, outlets, landing valves, water tanks, pumps, etc so as to be readily operable at all times in case of fire. The Contractor shall employ a Professional Engineer to design, supervise and take charge of the installation to ensure compliance with the Authorities' requirements.</p> <p>F Provide all necessary electricity and water supplies for the use of fire rising mains during construction. The Contractor shall be responsible for the implementation of all temporary works in connection therewith to comply with the relevant Authorities' requirements.</p> <p>G The Contractor is reminded that the Works comprise the refurbishment of (state name of building) and provide for major alterations and restoration works to the existing building(s) and structures complemented with new construction.</p> <p>In addition to the above requirements, the Contractor shall allow for and implement the following fire preventive measures compliant with the Authorities' requirements:</p> <p>H (1) The existing fire sprinkler installation shall be deactivated and removed in stages as the refurbishment works proceed</p> <p>I (2) Dry rising mains shall be kept operable throughout the construction period</p> <p>J (3) The access route to and from and the vicinity of the breeching inlet of the rising mains shall be kept clear of rubbish, debris, construction waste, etc</p> <p>K (4) Escape staircases leading to and from the occupied floors of the building shall be kept clear. The Contractor shall not carry out any works nor store materials along the staircase and/or any fire escape route to impede ingress/egress</p> <p>L (5) All open welding and flame cutting work shall be carried out under close supervision and away from combustible materials which must be removed or securely covered</p>	

PRELIMINARIES

Item	Description	Amount S\$
A	<p><u>FIRE PROTECTION DURING CONSTRUCTION (Cont'd)</u></p> <p>In addition to the above requirements, the Contractor shall allow for and implement the following fire preventive measures compliant with the Authorities' requirements: (Cont'd)</p> <p>(6) Shoring shall not be permitted in areas of high fire risks and/or where flammable materials are stored</p> <p><u>BRANCH OFFICE CONTRACTORS</u></p> <p>In the event the Contractor is a Branch Office whose Main/Head Office is incorporated outside of Singapore, the Contractor shall provide the Superintending Officer, within 21 days from the date of acceptance of the tender, the following documents:</p> <ul style="list-style-type: none"> B (1) Letter of Confirmation from the Main/Head Office C (2) Board of Directors' Resolution passed by the Main/Head Office authorising the issue of the Letter of Confirmation D (3) Certified true copies of the Power of Attorneys and Board of Directors' Resolutions executed and passed by the Main/Head Office authorising the authorised agents of the Branch Office to enter into this Contract E Specimen copies of the documents are annexed to this Section as Appendix SECT1/D. <p><u>CLEARING UP AND CLEANING</u></p> <ul style="list-style-type: none"> F Upon completion of the Works and before the Superintending Officer issues the Certificate of Substantial Completion, the Contractor shall dismantle and remove from the Site all plant, temporary buildings and temporary works, surplus materials and rubbish and make good all work disturbed. G Clean the whole of the Works inside and out, removing stains, temporary protective films and coverings, touching up paintwork and polished work and leave the whole of the Works clean and to the satisfaction of the Superintending Officer. 	

PRELIMINARIES

Item	Description	Amount S\$
	<u>PRELIMINARIES Collection</u> Page No. SECT1.1/1 Page No. SECT1.1/2 Page No. SECT1.1/3 Page No. SECT1.1/4 Page No. SECT1.1/5 Page No. SECT1.1/6 Page No. SECT1.1/7 Page No. SECT1.1/8 Page No. SECT1.1/9 Page No. SECT1.1/10 Page No. SECT1.1/11 Page No. SECT1.1/12 Page No. SECT1.1/12+1 Page No. SECT1.1/13 Page No. SECT1.1/14 Page No. SECT1.1/15 Page No. SECT1.1/16 Page No. SECT1.1/17 Page No. SECT1.1/18 Page No. SECT1.1/19 Page No. SECT1.1/20 Page No. SECT1.1/21 Page No. SECT1.1/22 Page No. SECT1.1/23 Page No. SECT1.1/24 Page No. SECT1.1/25 Page No. SECT1.1/26 Page No. SECT1.1/27 Page No. SECT1.1/28 Page No. SECT1.1/29 Page No. SECT1.1/30 Page No. SECT1.1/31 Page No. SECT1.1/32 Page No. SECT1.1/33 Page No. SECT1.1/34 Page No. SECT1.1/35	

Carried Forward

PRELIMINARIES

Item	Description	Amount S\$
	Brought Forward Page No. SECT1.1/36 Page No. SECT1.1/37 Page No. SECT1.1/38 Page No. SECT1.1/39 Page No. SECT1.1/40 Page No. SECT1.1/41 Page No. SECT1.1/42 Page No. SECT1.1/43 Page No. SECT1.1/44 Page No. SECT1.1/45 Page No. SECT1.1/46 Page No. SECT1.1/47 Page No. SECT1.1/48 Page No. SECT1.1/49 Page No. SECT1.1/50 Page No. SECT1.1/51 Page No. SECT1.1/52 Page No. SECT1.1/53 Page No. SECT1.1/54 Page No. SECT1.1/55 Page No. SECT1.1/56 Page No. SECT1.1/57 Page No. SECT1.1/58 Page No. SECT1.1/59 Page No. SECT1.1/60 Page No. SECT1.1/61 Page No. SECT1.1/62 Page No. SECT1.1/63 Page No. SECT1.1/64 Page No. SECT1.1/65 Page No. SECT1.1/66	

[To Section 1 Summary](#)

Item	Description	Amount S\$
	<p><u>Section 1 Summary - GENERAL CONDITIONS AND PRELIMINARIES</u></p> <p>Page No. SECT1.1/68 PRELIMINARIES</p>	
	TO FINAL SUMMARY	