Form No	REPUBLIC OF THE UNION OF MYANMAR			0		Plan A	
	Yangon Regional Government			00	100 and 100	anoseos	\mathcal{A}
CL-001-B	Yangon City Development Committee					11111	
	Building Control Authority				<u> ৭</u> কন্ডক্রি	8073	
B. Check-list for docur	nents requirements and project technical rev	view					
		E	BCIV	1		Voc	No
		1	2	3	N/A	Yes	NO
1. DRAWING REQUIREMENTS AND PROJECT TECHN	IICAL REVIEW						
1.1. For the Development Area Permit Section							
1.1.1. Architectural designs							
A. Drawing sheets							
- Equipment technical specification schedule, abbrev	iation						
- Drawing list							
B. Location Map (not to scale)							
- North Point							
- Surrounding main Roads, nearest junctions & landr	narks (traffic lights, etc.) near by the proposed site						
- Topography mentioning the Above Mean Sea Level	(AMSL)(if needed)						
- Traffic flow directions							
C. Site Plan (Scale- 1/8"=1'-0",3/32"=1'-0",1/16"=1'	-0" <u>)</u>				I		
- Orientation and scale							
- Traffic flow directions							
- Name, width and type of the principal access roads	. For the plot located at a corner, also mention the						
roads nearby.							
- Plot dimensions, building dimensions & set-backs, b	ouilding to be demolished						
- Dimensions, setbacks, type, use & orientation of ex	isting buildings						
- Location and distance between the proposed buildi	ng and the creek, well, lake, water supply pipe line.						
aas pipe line & electrical transmission line in the prop	posed site (if necessary)						
- Topographic map (if there is any level difference)							
- Distance between antique buildings & proposed sit	e (if necessary)						
- Distance from Shwedagon Pagoda with respect to S	Shwedagon Restricted Area Map (if necessary)						
- Key plan of photoshoots							
- Location of trees. distinguishing those to be mainta	ined, felled and planted, and specifying their						
species and the ground projection of their crowns							
- Location and dimensions of parking areas, garages	, interior service roads and their connection to the						
main access road, specifying the nature of the mater	ials used (permeable and impermeable)						
- Location and space provision for transformer, gene	rator & septic tank (if necessary)						
- Location and space provision for the water supply of	and sewage system (with indication of the depth)						
- Springs, bodies of water, wetlands or marshes(if ne	cessary)						
- Back drain space and side drain space (if necessary)						
- Location and space provision of the site drain system	m						
- Greening areas							
- - Description of the nature of the materials used (per	meable and impermeable) for principal access	1 1					
roads with percentage of each type							
- Description of the nature of the materials used (per	meable and impermeable) for parking area with						
percentage of each type, garages and interior service	e roads						
- Line of building coverage & building coverage ratio							
- Site google map and GPS location (which includes L	atitude / longitude) of site information						
D. Perspective drawings	· · ·				!		
- Perspective view of proposed building							
E. Area Data Sheet							
- Site/Plot Area							
- Gross Floor Area (NFA, Parking, Service Area, etc)							
- Building Coverage Ratio Calculation							
- Gross floor Area Ratio Calculation (for use risk evalu	uation and occupancy rates) with polygons						
- Car Parking Provisions (if necessary)							
- Green Area /Open Space percentage, Permeable Ar	rea, Road Area Ratio						
					L		

- Road Buildina Ratio in relation to buildina heiaht				
- Total areas of the different types of occurrancies taken into account for the Building Categorization				
Matrix in relation with the polyaons detailing the different areas taken into account				
Architectural Floor Plans (Scale, 1/8"-1'-0" 3/32"-1'-0" 1/16"-1'-0")				
Key Plan of elevations and sections				
Name of the accurate time for each room and (or spaces contained in the building				
- Name of the occupancy type for each room ana/or spaces contained in the banding				
- Dimensions and dreas of each room				
- Door openings with swing directions				
- Windows				
- Stairs & vertical shafts, escalators				
- Ramp, driveway width & flow directions				
- Setbacks with plot boundaries (for irregular shape)				
- Section Line				
- Location and provisions of the mechanical, electrical and plumbing installations				
G. Elevations (Scale- 1/8"=1'-0",3/32"=1'-0",1/16"=1'-0")				
- Plinth level mentioning the natural ground level				
- Building height mentioning the natural ground level / road level				
- Building height mentioning the Above Mean Sea Level (AMSL)				
- Building height mentioning the Above Mean Sea Level (AMSL) if the building is located in the				
Shwedagon Restricted Area (if necessary)	1			
- Setbacks with boundary limits				
- Building heights with different natural ground level / road level (for plot with slope)			<u> </u>	
- Description of the materials and colors used for the facades				
H. Architectural Sections (Scale- 1/8"=1'-0".3/32"=1'-0".1/16"=1'-0")				
- Mass and voids				
- Plinth level mentioning the natural around leveland the projected around level	-	-		
- Ruilding height mentioning the natural ground level / road level	-	-		
Level of existing and projected profile of the ground				
Puilding beight montioning the Above Mean Sea Level (AMSL)			 	
- Building height mentioning the Above Mean Sea Level (AMSL)				
- Building height mentioning the Above Mean Sea Level (AIVISL) if the building is located in the				
Shweduyon Restricted Area(i) hecessary)				
- Stair section with riser , tread and landing				
- Lift snafts and data				
- Kamp design with indication of the slope and hedd room			 	
- Proposed building cross section continuously with existing building (if necessary)				
- Description of the materials used				
- Ceiling heights (if the ciling is mentionned in the drawings)				
- Floor to floor heights				
- Veranda or balcony handrails heights				
I. Architectural Details (Scale- 1/4"=1'-0",3/16"=1'-0")				
I.1. Stairs				
- Dimension of riser, tread & landing				
- Landing to landing height				
- Stair head room				
- Handrail heights				
I.2. Doors and Windows				
- Dimensions				
- Glass specification (if necessary)				
- Safety measures (if necessary)				
- Types and materials				
I.3. Car Ramp & Drive Way				
- Ramp Slope			<u> </u>	
- Width of drive way				
- Head room height				
I 4. Mechanical Car Parking				
- Technical Specification				
i.s. raçade design consideration	1			

- Specification of finishing material					
- Curtain wall					
- Green wall					
J. Foundation Plan (Scale- 1/8"=1'-0".3/32"=1'-0".1/16"=1'-0")					
- Plot boundaries with dimensions					
- Foundation type					
K. Accessibility provisions (if needed)					
- Dimensions and numbers of parking lots					
- Dimensions of entrance and doors					
- Dimensions of corridors and walk ways					
- Floors materials					
- Dimensions of handrails					
- Dimensions of ramps and slope					
- Dimensions of lifts and stairs					
- Dimensions of restrooms and toilets					
1.1.2. Pile Load Test (Bored, ultimate or working) when structural system requires					
A. Method of Statement					
- Code of practice and design reference					
- Method of Statement of pile load test					
- Material Properties					
- Pile design report by foundation designer (geotechnical and structural design)					
- Geotechnical Report (should consist adequate c, Φ and SPT value for pile design calculation) and	\top				
Borehole Profile					
- Site Location Plan with adjacent building and bore holes					
- Columns loading calculation (for working pile load test)					
- Piling Plan with Test Pile Locations					
- Test pile details (Anchor pile details if anchor method)					
- Sample Record Form					
- Load Conversion Table					
B. Report					
- Code of Practice and Design Reference					
- Material Properties					
- Piling Plan with Test Pile Locations					
- Test Pile details					
- Anchor Pile Details (if necessary)					
- Test Results					
- Recommendation for Pile Capacity Results					
- Calibration Certificate					
- Record Form					
C. Submission Set					
C.1. Signatures					
- Local Design: Signature of the PE and RSE (Geotechnical)					
- Foreign Design: Signature of Original Geotechnical Design Engineer					
- Foreign Design: Signature of National Counter Part (PE)					
C.2. Document Set			_		
- Set of design drawing, calculation and report submitted through the YDPS					
1.1.3. Structural designs			_		
A. Design Report					
A.1. Structural system design criteria					
- Code of Practice and DesignReference, Specification					
- Basic Structural System					
- Material Properties					
- Soil Investigation Report					
- Design loads					
- Load combination					
A.2. Structural analysis	1				
- Static Analysis	1				
- Dynamic Analysis					
		1 C C		1	

- Analysis Input Data							
- Analysis Output Results							
- Analysis Soft Copy							
A.3. Super Structure Design							
A.3.1. Super structure design							
- Beam Design							
- Column Design							
- Slab and Stair Design							
- Shear Wall Design							
- Car Ramp Design							
- Others (if necessary)							
A.3.2. Super structure stability checking							
- Storey unit weight							
- Base Shear/weight ratio and Calculation							
- Storey drift limit							
- Mode Participation Ratio							
- Soft Storey							
- P-∆ Effect							
- Overturning							
- Torsional Irregularity							
- Sliding							
- Analysis Results							
- Structural Design Results							
- Dual system							
- Diaphragm Discontinuity							
A.4. Sub structure Design							
A.4.1. Substructure (Pile foundation)							
- Pile Capacity Calculation							
- Lateral Subgrade Reaction Calculation (if necessary)							
- Pile Base Spring and Skin Friction Calculation (if necessary)							
- Pile Cap Design							
- Cap Beam Design							
- Pile Settlement Calculation							
- Liquefaction Analysis							
A.4.2. Substructure (shallow foundation)							
- Allowable bearing capacity of soil							
- Modulus of subgrade reaction of soil							
- Punching Shear Check							
- Settlement Calculation							
A.4.3. Substructure (basement)		 					
- Basement Retaining Wall Design							
- Basement Slab Design							
A.5. Steel structure		 					
- Bolted and Welded Connection Design							
- Slab Design							
- Bracing Design							
- Base Plate Design							
- Others (if necessary)							
A.6. Earth retaining structure		 					
- Overturning Check							
- Sliding Check							
- Bearing Capacity Check		L					
- Others (if necessary)		L					
B. Drawings		L					
B.1. Foundation Drawing		L					
B.1.1. General drawings		L					
- List of Drawings		L					
- Standard drawings and general notes							

- Site Location Plan with adjacent building and bore holes					
- Foundation plan					
- Basement floor beam and slab plan					
- Car ramp, lift pit beam & slab plan (if necessary)					
B.1.2. Detail drawings					
- Structural detail drawings: beams, columns, slabs, shear walls and retaining walls (up to another					
level)					
- Detail of Pile (longitudinal and transverse section, joint end plate, connection)					
- Detail of the different types of pile caps (steel layout and dimension)					
- Detail of cap beams (steel layout and dimensions)					
- Basement floor beam and slab details					
- Car ramp detail (if needed)					
B.1.3. Schedules		_	_		
- Schedules (mat, strip, strap, combined, single, wall footing)					
- Schedules (pile, pile cap and cap beam)					
- Schedules (basement floor beam & slab)					
- Other Schedules (if necessary)					
B.2. Super Structure Drawing					
B.2.1. General drawings			_		
- List of Drawings	\square				
- Standard Drawings and General Notes	\square				
- Structural Plans (beams, columns, slabs)	Ц				-
- Structural Sections					
- Stair Landing Beam & Slab Plans					
- Tendon Profile Plans (for Post-tension, Pre-tension Slab with Method of statement)					
Barr Detail					
- Beam Details		_			
- Column Details					
- Slub Details		_			
- Opening Slub unu Wan Details (ij necessary)		_			
- Stan Detan (Man Stan, The Escape)					
- Shear Wall Detail					
B.2.3. Schedules		_			
- Beam Schedules					
- Column Schedules					
- Shear Wall Schedules					
B.3. Steel structures drawings		_			
- Connection Detail					
- Base Plate Detail					
- Bracing(Plan and Elevation)					
C. Submission Set					
C.1. Signatures					
- Local Design: Signature of PE and RSE (Structure) and PE and RSE (Geotechnical)					
- Foreign Design: Signature of Original Structural and Geotechnical Design Engineers					
- Foreign Design: Signature of National Counter Part (PE)					
C.2. Document Set					
- Set of design drawing, calculation and report submitted through the YDPS					
1.1.4. Deep excavation design					
A. Design Report	 	_			
- Code of Practice and Design Reference	Ш				
- Analysis Methodologies (monitoring instrumentation general note)	\square				
- Material Properties					
- Analysis Kesuits Chrystevel Marshar Charles					
- Structurur IVIEmber Checks	Н				
- Geolechnicul Report und Bole Hole Profile and Location	\vdash				
B Design Drawings	Ш				<u> </u>
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- Drawing list						
- Monitorina instrumentation general note						
- Site location plan with adjacent building and bore holes						
- Building layout plan with foundation boundary line and TERS Line						
- Retaining wall layout plan						
- Strutting layout plan (if necessary)						
- Monitorina plan and frequency table						
- Critical sections						
- Structural member details						
- Joints and connection details						
- Retaining wall details						
- Strutting member details (if necessary)						
- Joints and connection details						
- Soil stability check						
- Method of statement						
C Submission Set						
C 1 Signatures						
- Local Design: Signature of PE or RSE (geotechnical)						
- Local Design: Signature of original apotachnical design angineers						
Foreign Design: Signature of Untional Counter Part (PE)						
- Foreign Design. Signature of National Counter Part (PE)						
C.2. Document Set						
- set of design drawing, calculation and report submitted through the YDPS						
1.1.5. Electrical design						
A. Design Report						
- Load Calculation						
- Voltage Drop Calculation						
- Illumination Level Calculation (at Special room)						
B. Design drawings						
B.1. Drawing sheets						
- Drawing List						
- Legend, Note & Abbreviation						
- Site plan, Layout plan						
- High Tension Receiving Schematic Drawing						
- Low Tension Distribution Schematic Drawing						
- Power Distribution & Circuit Diagram (single line diagram)						
- Tray, Trunking & DB Layout Plan						
- Lighting Layout Plan						
- Power Layout Plan						
B.2. Supplements and notes						
- Earthing System (TT, TN-S)						
- Lightning Protection System (Conventional Type)						
- Basic Lift Drawing complete with specification						
- Sub-Station & Generator Locations						
C. Submission Set						
C.1. Signatures						
- Local Design: Signature of PE or RSE (electrical)						
- Foreign Design: Signature of original electrical design engineers						
- Foreign Design: Signature of National Counter Part (PE)						
C.2. Document Set						
- Set of design drawing, calculation and report submitted through the YDPS						
1.1.6. Mechanical design			1			
A. Design Report						
- Design calculation						
- Cooling load calculation						
- Car park mechanical ventilation						
- Staircase pressurization	<u> </u>					1
- Smoke stop and fire fighting lobbies	1					

- Equipment schedule			
B. Design Drawings			
- Drawing list			
- Legend, note & abbreviation			
- Air conditioning design drawings			
- Exhaust and fresh air mechanical ventilation			
- Car-park mechanical ventilation			
- Staircase pressurization (schematic)			
- Smoke stop and fire fighting lobbies			
- Mechanical ventilation			
C. Submission Set			
C.1. Signatures			
- Local Design: Signature of PE aand RSE (mechanical)			
- Foreign Design: Signature of original building services design engineers			
- Foreign Design: Signature of National Counter Part (PE)			
C.2. Document Set			
- Set of design drawing, calculation and report submitted through the YDPS			
1.2. For the Drainage and Sewage Management Task Force			
A. Design report			
A.1. Design report for drainage			
- Sizing of drain pipe			
- Sizing of perimeter drain and main drain			
- Rainfall intensity			
A.2. Design report for sewage			
- Sizing of soil branch, soil stack and ventilation			
- Sizing of waste branch, waste stack and ventilation			
- Waste water treatment plant / waste water treatment system (with respect to the method used)			
- Rainfall intensity			
- Sizing of gutter and gutter outlet			
- Sizing of rain water down take pipe			
- Disposal pump when required			
B. Design Drawing			
B.1. Design drawing for drainage			
- Site plan and layout plan with the location, type and dimensions of the drainage system (drains, etc.)			
until the public main drainage			
- Site plan and layout plan with the location and dimensions of rain water retention tanks (if necessary)			
- Is the drain made with a removal cover?			
B.2. Design Drawings for sewage			
- Site plan and layout plan specifying the location and dimensions of the water evacuation system specifying the means of waste water treatment systems (septic tanks, waste water treatment plan, etc.)			
- Location and dimensions of the septic tank or the waste water system within the site plan (in the back drain space, side drain space or within the plot)			
- Plan and section of the septic tank or the waste water treatment system (Hydraulic profile)			
- Floor plan, elevation, cross section or schematic diagram of the connection system from the WC to the			
septic tank or to the waste water treatment system			
- Location and aetailed drawings of the waste water treatment system (anaerobic or aerobic) including the calculation sheet			
- Detail of the perforated slab (in the case of an up flow filter system)			
- Technical specification of the waste water treatment system if prefabricated			
- Schematic diagram of the cold water, hot water and soil, waste and vent pipes lines			
- Calculation of the number of all showers, bathtubs, sinks, separate tap, urinal and WC			
- Detail drawings and flow sheet of the water treatment plant			
- Detail drawings and flow sheet of the waste water treatment plant / sewage treatment plant			
C. Submission Set for the Drainage and Sewage Management			
C.1. Signatures			

- Local Design: Signature of professional engineer (water and sanitation)					
- Foreign Design: Signature of original water and sanitation engineer					
- Foreign Design: Signature of National Counter Part (PE)					
C.2. Document Set					
- Set of design drawing, calculation and report submitted through the YDPS					
1.3. For the Water and Water Supply Management Task Force					
1.3.1. Design report					
- Source of water supply					
- Cold and hot water demand with respect to design PE					
- Sizing of ground water reservoir and roof tank reservoir					
- Water treatment plan					
- Sizing of transfer pump and transfer pipe					
- Head loss calculation at critical location					
- Positioning of Pressure Reducing Valve (PRV)					
- Sizing of booster for boosting pressure for floors with inadequate (low) pressure					
- Sizing of water meter					
- Sizing of hot water supply facilities					
1.3.2. Design drawings					
- Drawing list					
- Equipment, schedule, abbreviation					
- Site plan with the location and dimension of the main pipe line					
- Site plan with the location and dimension of the ground tank					
- Site plan with the location and dimensions of the storage tank (for the construction phase)					
- Eloor plan and cross section of the water connection system					-
1.3.3. Supplements and notes					
- Well loas if around water is used	-				
- Provide both chemical and bacteriological analysis of water sample					
- Provide chart, table, monoaraph, ac., which are used durinadesian calculation	-				
1.3.4. Submission Set	-				
A. Signatures	-				
- Local Desian: Signature of professional engineer (water and sanitation)	-				
- Foreian Desian: Sianature of original water and sanitation desian engineers	-				-
- Foreign Design: Signature of National Counter Part (PE)	-				
B. Document Set					
- Set of design drawing, calculation and report submitted through the YDPS					
1.4. For the Environmental Management Task Force	_				
1.4.1. Design report	Т				
- Estimation of solid waste volume	-				
- Calculation of the number of compactor bin or dust bin	-				
- Calculation of bin center or bin room size	-				-
- Description of collection and disposal system	1				
- Coordination and contact with relevant task force for the disposal of construction waste					
- IEE, EIA, ESIA, EMP if required					
1.4.2. Design drawings		<u> </u>			
- Site plan with the location and dimensions of the bin center (if necessary)					
- Eloor plans with the location and dimensions of the bin room(s) and chute system (if necessary)	-				
- Sections with the location and dimensions of the chute system (if necessary)	-				
1.4.3. Submission Set	-				
A. Signatures					
- Local Design: Signature of professional engineer (water and sanitation)	+				
- Foreign Design: Signature of original water and sanitation design engineers	-				
- Foreian Desian: Sianature of National Counter Part (PF)	+	-			
B. Document Set	+	I	<u> </u>	<u> </u>	
- Set of design drawing, calculation and report submitted through the YDPS	+				
1.5. For the Streets and Bridges Task Force	1				1
- Name and width of the principal access road. For plots located at a corner, also mention the roads					
nearby.					
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- Location and dimensions of parking areas, garages, interior service roads and their connection to the			
main access road			
- Number and type of car-parking			
- Location and dimension of platform areas			
- Distance to the nearest main road junction if the plot is situated within a distance of less than 100			
meter from this main road junction			