

Illustration of Business Activities for Executing Core Processes Annex 21A (2)

Activities: A2601-A2718 (@400 per function)

Functions: **Designing of Architecture of buildings**

(Chapter:1 & Annex 20A)

Core Process code: C1151 Core Process: Designing of Structure Sourced from: chapter 1, Point 1.1	Proposed activity codes
Developing Concept designs and schemes (based on design calculations of PCC/Reinforcements requirements based on a factor of safety/Earthquake zone etc.) and using software like STADD or ETAB.	A2601
Vetting of design by independent proof consultant	A2602
Developing GFC and specifications like capturing TMT bar sizes, RMC etc. for various structural elements	A2603
Preparing Tender covering technical aspects: <ul style="list-style-type: none"> ● Tender drawings ● Technical specifications ● Material brands ● Quality standards -National & International ● Other technical aspects-shop drawings, safety, change orders etc. 	A2604
Issuing Structural stability certificate	A2605
Making Cost estimates for the entire structure	A2606
Issuing "As-built drawings" after the structure is complete and approved	A2607
Seven activities have been identified & coded as A2601-A2607.	
Core Process code: C1152 Core Process: Designing of Building's Architecture Sourced from: chapter 1. Point 2.1	
Stage A) Developing Concept design.	

Developing Strategic plans vis a vis vision	A2608
Developing Overall design plans	A2609
Developing concept designs for Landscape	A2610
Developing traffic Circulation plans	A2611
Developing Master plans	A2612
Developing Area statements	A2613
Developing Preliminary plans & elevations	A2614
Stage B1) Developing Schematic design -Step 1 Developing Design intents vis a vis each floor to be constructed.	
Developing plans & elevations	A2615
Developing Design intents Structure	A2616
Developing Design intents for MEP coordination	A2617
Developing Design intents for Facade.	A2618
Developing Design intents for Landscape	A2619
Developing Design intents for Interior designing	A2620
Stage B2) Developing Schematic design -Step 2- Developing final designs vis a vis each floor to be constructed.	
Finalising Design Intents	A2621
Developing Three-D views	A2622
Computing Area statements	A2623
Developing Renderings	A2624
Estimating Costs & Budgets	A2625
STAGE C) Developing Sanction design	
Preparing architect drawings for submission to statutory authorities	A2626
Incorporating Area statements	A2627
Preparing Coordinated submission drawing for Structure	A2628
Preparing Coordinated submission drawing for MEP works	A2629
Preparing Coordinated submission drawing for Façade	A2630
Preparing Coordinated submission drawing for Landscape	A2631
Preparing Coordinated submission drawing for Interior design	A2632
Stage D) Developing detailed Design (Based on statutory approvals)	
Developing Architect general arrangement drawings	A2633
Preparing Design brief review	A2634

Preparing Revised Coordinated drawings for the structure	A2635
Preparing Revised Coordinated drawings for MEP works5.	A2636
Preparing Revised Coordinated drawings for Facade	A2637
Preparing Revised Coordinated drawings for Landscape	A2638
Preparing Revised Coordinated drawings for Interior design	A2639
Stage E1) Developing Tenders (Technical design aspects)-for Structure works.	
Developing Bill of quantities (BOQ) including a detailed scope of work	A2640
Developing BOQ materials to be procured by the project owner & to be supplied to the proposed contractor for the erection	A2641
Developing BOQ Items in Contractor's scope for supply, testing & erection of structure works	A2642
Developing Specifications for each BOQ material at the line item level	A2643
Incorporating relevant Technical /Quality standards for each BOQ material & workmanship, erection & testing	A2644
Stage E2) Developing Tenders (Technical design aspects)-for Civil works.	
Bill of quantities (BOQ)	A2645
BOQ materials to be procured by project owner & to be supplied to the proposed contractor for the erection	A2646
BOQ Items in Contractor's scope for supply, testing & erection & commissioning of Civil works	A2647
Specifications for each BOQ material at the line item level	A2648
Incorporating relevant Technical /Quality standards for each BOQ material & workmanship, erection, testing & commissioning	A2649
Stage E3) Developing Tenders (Technical design aspects)-for Façade works.	
Bill of quantities (BOQ)	A2650
BOQ materials to be procured by project owner & to be supplied to the proposed contractor for the erection	A2651
BOQ Items in Contractor's scope for supply, testing, erection & commissioning of Façade works	A2652
Specifications for each BOQ material at the line-item level	A2653
Incorporating relevant Technical /Quality standards for each BOQ material & workmanship, erection, testing & commissioning	A2654
Stage E4) Developing Tenders (Technical design aspects)-for Landscape works (both hardscape &softscape)	
Bill of quantities (BOQ)	A2655
BOQ materials to be procured by project owner & to be supplied to the proposed contractor for the erection	A2656
BOQ Items in Contractor's scope for supply, erection of landscape works	A2657
Specifications for each BOQ material at the line item level	A2658
Incorporating relevant Technical /Quality standards for each BOQ material & workmanship, erection	A2659
Stage F) Estimating Costs in Rs & or Rs/sft (BOQ+ Labour+ direct construction variable costs)	

Estimating costs of structure works	A2660
Estimating costs of finishes works	A2661
Estimating costs of external development works	A2662
Estimating costs of façade works	A2663
Estimating costs of landscape works	A2664
Stage G) Developing Working drawing/GFC (Good for construction drawings)	
Excavation & foundation, retaining walls, columns, footings etc.	A2665
Basements, staircases, ramps, ground floor slabs, entry steps etc.	A2666
Shell & core, basement floors, stilt plans, window openings, walls/slabs cut-outs, typical sections, staircases, reflected ceiling plans, furniture layouts, elevation for lobbies, toilets, lift machine rooms, schedule of shafts with sizes.	A2667
Terrace floors, fire alarm systems, plumbing, HVAC, electrical etc.	A2668
Structure works for columns, foundation, stilt floor, beams, cutouts, retaining walls, levels, column schedules, staircases etc.	A2669
Facade, glazing schedules, windows, doors, ventilation schedule, Landscape -both hardscape & softscape	A2670
Interior design layouts, elevations, schedule of finishes (stones, flooring, tiles, paints, cladding etc. (in case no separate function exists)	A2671
Issuing “As-Built drawings” post-completion of Architecture related construction, areas computation corresponding inputs, drawings & documents for applying of “occupation certificates “& “completion certificates	A2672
Sixty-five activities have been identified & coded as A2608-A2672 in this process C1152	
Core Process code: C1153 Core Process: Designing of Façade Sourced from: chapter 1 Point 3.1	
A) Developing Concept design vis a vis following:	
Building Envelop	A2673
Building statutory codes	A2674
Performance of façade	A2675
Construction methods	A2676
Maintenance	A2677
Renderings	A2678
Cleaning system	A2679
Stage B) Developing Detailed design vis a vis:	

Structural integrity	A2680
Material selection.	A2681
Thermal movements	A2682
Edge beam deflection	A2683
Thermal expansion	A2684
Acoustics	A2685
Fire protection.	A2686
Structural calculation	A2687
Stage C) Developing Tender documents such as below:	
Developing Tender drawings and specifications.	A2688
Developing Technical specifications	A2689
Developing Material brands (hardware, glazing, stones, claddings etc	A2690
Identifying Quality standards -both national &international for BOQ & Workmanship requirements	A2691
Incorporating other various requirements in a tender document such as shop drawings, safety, quality, change orders etc. as listed in chapter 1	A2692
Stage D) Estimating Costs-in Rs & Cost/Sft of the saleable area or built-up room or both as relevant:	
Estimating costs related to BOQ inputs, labour component, construction, installation etc. at all levels of Façade	A2693
Stage E) Issuing As-built drawings.	
Issuing "As-Built drawings" post-completion of façade for each section	A2694
Twenty-two activities have been identified & coded as A2673-A2694 in this process C1153	
Core Process code: C1154	
Core Process: Designing of landscape -Hardscape	
Sourced from: chapter 1. Point 4.1	
Stage A) Developing Concept design.	
Developing key plans /drawings appropriately for the listed hardscape areas.	A2695
Stage B) Developing Detailed design:	
Site plans/drawings with: Dimensions, gradings, material, soil -depth, drainages, water features etc.	A2696
Site sections and elevations	A2697
Working drawings	A2698
Stage C) Developing Tender documents.	
Developing Tender drawings and specifications	A2699

Developing Technical specifications	A2700
Developing Material brands vis a vis hardscape BOQ	A2701
Identifying Quality standards -both national &international for BOQ & Workmanship requirements	A2702
Incorporating other various requirements in a tender document such as shop drawings, safety, quality, change orders etc. as listed in chapter 1	A2703
Stage D) Estimating Costs -in Rs & Cost/Sft of the saleable area or built-up area or both as relevant:	
Estimating costs related to directly bought out BOQ inputs by the project team & issued to the contractor, labour component, construction, installation etc. for all types of Hardscape elements	A2704
Estimating costs related to BOQ inputs in the scope of Contractor including labour component, construction, installation etc. for all types of Hardscape elements	A2705
Stage E) Issuing As-built drawings.	
Issuing "As-Built drawings" post-completion of Hardscape	A2706
For hardscape designing,12 activities have been identified & coded as A2695-A2706 in this process C1154	
Core Process code: C1155 Core Process: Designing of landscape -Soft scape Sourced from: chapter 1. Point 4.2	
Stage A) Developing Concept design.	
Developing key plans /drawings at an appropriate scale for the listed softscape areas such as Plants, Ground covers, Grassing, Trees, Planters and plants for interior areas.	A2707
Stage B) Developing Detailed design:	
Specifications/details for Plants, Ground covers, Grassing, Trees, Planters and plants for interior areas.	A2708
Plant specifications, sizes, spacings	A2709
Developing methods for guying, watering, handling, pest control, transplanting, equipment, fungicides control etc.	A2710
Stage C) Developing Tender documents.	
Developing Tender drawings and specifications	A2711
Developing Technical specifications	A2712
Developing Types/Material brands (Plants, Ground covers, Grassing, Trees, Planters and plants for interior areas)	A2713
Identifying Quality standards -both national &international for BOQ & Workmanship requirements	A2714
Incorporating other various requirements in a tender document such as shop drawings, safety, quality, change orders etc. as listed in chapter	A2715
Stage D) Estimating Costs -in Rs & Cost/Sft of the saleable area or built-up area or both as relevant:	

Estimating costs related to directly bought out BOQ inputs by the project team & issued to the contractor, labour component, construction, installation etc. for all types of Softscape elements	A2716
Estimating costs related to BOQ inputs In the scope of Contractor including labour component, construction, installation etc. for all types of Softscape elements	A2717
Stage E) Issuing As-built drawings.	
Issuing "As-Built drawings" post-completion of softscape	A2718
For softscape designing,12 activities have been identified & coded as A2707-A2718 in this process C1155	
Total 118(7+65+22+12+12) key activities have been identified by the author for five core processes from C1151-C1155.	A2601-A2718
Flexibility to functional users has been provided to add 282 more key core activities (totalling 400) in various core processes from C1151 to C1155 & expandable to C1200.	A2719-A3000