

**Generic (non-exhaustive) checklist for high risk activities  
(HASAS)**

<b>Construction Operations / Activities</b>	
<b>Site preparation / planning</b>	
1.	Hoarding erection/removal
2.	Site clearance- site office set up (e.g. container site office), plant manoeuvring, lifting operation including area of material storage and lifting area etc.
3.	Machinery and plant assembly- e.g. mobile crane-lattice jib
4.	Scaffold erection/removal
5.	Slope work including decking/working stage erection, use of compressed air tools-soil nail
6.	Pre-stress/post-tensioning for rock anchor, etc.
7.	Confined space related to drainage work
8.	Work near water
9.	Work close to high voltage power line, live utilities
10.	Transportation, use and storage of explosive
11.	Traffic diversion, site pedestrian and vehicular traffic control and safe means of access and egress
12.	Strut erection for slope protection work, excavation work and adjacent structure, etc.
13.	Lifting operation for transportation of machinery, plant, equipment and materials.
14.	Use of concrete pump
<b>Foundation</b>	
15.	H-piling work including piling rig assembly, dolly adjustment and alignment, piling process, sand blasting operation and paint coating against corrosive etc.
16.	Pile piling work including use of compressed air tool
17.	Bored piling including boring machine assembly, drilling and alignment; lifting operation for reinforcement, concreting etc.
18.	Decking/working stage erection for piling operations
19.	Load test process including lifting of test load and access and egress etc.

20.	Pile cutting for pile cap construction
21.	Formwork erection, bar fixing process for pile cap and pre-stress/post-tensioning work
22.	Supporting strut erection for slope, excavation, adjacent structure, sheet pile installation and extraction, etc.
23.	Removal of temporary works on slope, adjacent structures etc.
24.	Use of concrete pump and concreting of pile cap
25.	Lifting operation for transportation of machinery, plant, equipment and materials
26.	Grouting, dewatering and ground water / settlement monitoring
<b>Building</b>	
27.	Tower crane/Chicago boom (where applicable) erection, adjustment and maintenance, dismantling, lifting operation etc.
28.	Prefabricated elements: storage, provision of anchor points for lifting, measures to minimize risk of incorrect assembly etc.
29.	Large panel formwork: control measures for safe operations and to minimize risk of incorrect lifting etc.
30.	Skip or material hoist erection, adjustment and maintenance, dismantling and operation
31.	Passenger hoist erection, adjustment and maintenance, dismantling and operation
32.	Bamboo scaffold erection, maintenance and repair, and dismantling
33.	Protective fan and net erection, maintenance and repair, and dismantling
34.	Use and maintenance of woodworking machinery
35.	Use of lifting appliances and lifting gears (e.g. tower crane, winch, chain blocks, pulley block, lorry mounted crane, etc.) for lifting operation including machinery, plant, equipment and materials e.g. <b>modular integrated construction module</b> , precast façade, metal formwork, reinforcement, concrete skip etc.
36.	Installation, maintenance, use and dismantling of gondola
37.	Curtain wall/fabric or metal panel installation including handling of glass panel, metal sheet etc.
38.	Lift installation work
39.	Confined space work including water tank and drainage system cleaning and inspection work

40.	Formwork erection, bar fixing work and concreting work at upper floor
41.	Pre-stress/post-tensioning work (where applicable)
42.	Large scale of air-conditioning unit installation such as chiller type etc.
43.	Falsework erection for structural construction such as floor slab, bridge decking, roof slab, cantilever structure, etc.
44.	Temporary working platform erection, maintenance and removal
45.	Supporting strut erection for slope, excavation, adjacent structure, sheet pile installation and extraction, etc.
46.	Removal of temporary works on slope, adjacent structures etc.
47.	Access to and egress from lorry deck or a level above ground / floor slab
48.	Covering or fencing off floor or wall openings
49.	Truss-out bamboo scaffold
<b>Demolition</b>	
50.	Asbestos containing materials (ACM) demolition
51.	Strut erection for support of building structure or adjacent structure
52.	De-energize utility
53.	Demolition process of building structure including by breaker or cutting operation
54.	Lifting operation of cutting building structure, plant, machinery etc.
55.	Lifting of partly-demolished building structure (e.g. by saw cutting), plant, machinery, etc.
56.	Demolition of pre-stress or post-tensioning structure (where applicable)

Notes:

- (1) The above checklist is for general reference and is by no means exhaustive. Contractor should build up the list as appropriate, assess the risks of site operations /activities and establish appropriate control measures /safe operation procedures.
- (2) ASA should identify high risk operations /activities that are anticipated according to the project nature and progress, prioritize in the audit plan for verification during the safety audit.
- (3) Appropriate control measures / step-by-step safe operation procedures for the listed activities /operations have to be submitted along with site demonstrations for safety audits