

Continue

























activities ensuring that all method statements for blinding, quality, and safety procedures are implemented and required approval permits are obtained. Site Engineer/Supervise operations in accordance with the approved method statement for blindings, shop drawings, specifications, material submittals, and schedules to achieve the acceptance of the project deliverables. The Site Supervisor/Supervise closely, the activities designated to them and ensure they are followed and strictly adhered to. Supervise the work to ensure that technical, quality, safety, and purchase order requirements are met. Attend daily site meetings and communicate his daily report with the Project/Site Engineer. Participate in the training and development of his subordinates; Organize with the Project/Site Engineer to ensure the availability of plant, equipment, and labor to his designated work activities; Closely monitor the usage of consumables and materials by his crew in order to minimize wastage; Assess the craftsmanship of subordinates under his control. Site Foreman/To liaise with the Site Engineer and Supervisor for the work execution.QA/QC EngineerEnsure the proper implementation of the quality system and monitor the overall quality of the work is maintained. Conduct inspection and monitor tests. Determine and report any nonconformance and recommended corrective actions. Ensure that all personnel is aware of the quality requirement.Training of relevant personnel.Conduct surveillance and inspection duties at various stages to ensure compliance with QA/QC plan.HSE ManagerHealth, safety, and environmental (HSE) managers generally plan, coordinate and implement issues and directives within the organization. They ensure safe environmental working conditions for all employees.HSE EngineerEnsure enforcement of safety procedures in accordance with the approved HSE Plan.Will be closely monitoring the site engineer's strict implementation of the Method Statement for Blindings and Risk Assessment, the use of proper tools and equipment to maintain safety, certifications of equipment and their adherence to safety regulations, reporting of any unsafe work or stopping work that does not comply with ESHK procedures.Advices on Health & Safety requirements and monitors the Hazard controls implemented on-site as per the Method Statement for Blinding and Risk assessment.Chief SurveyorCarry out a pre-construction survey to fix the locations and corresponding elevations as per the approved shop drawings.Ensure quality and compliance during phases of surveying works and the regular checking of the surveying equipment or a periodic calibration from a third party.Ensure the validity and the serial number of calibration certificates are available and posted on the surveying equipment.Ensure proper safety guarding of surveying equipment.To maintain the records of all surveying equipment handled.Survey Aide/Maintain and use Surveying equipment. Assist Surveyors in taking measurements, record measurements manually or electronically, and peg out boundaries.Equipment OperatorThe only authorized person to operate any equipment to be used in the project.RiggerThe rigger assists in the movement of heavy equipment and loads to be lifted. A rigger set ups machinery and secures it in place and signals or verbally directs workers engaged in hoisting and moving loads, in order to ensure the safety of workers and materials.First AiderThe first aider responds promptly when requested, operates with competence, knows how to secure additional help when needed, reports incidents and actions taken, and complies with requirements for certification.BanksmanThe role of a banksman is to provide additional eyes and ears to assist the operator of the equipment to navigate or operate safely.CarpentersA carpenter construct erects, installs, and repairs structures and fixtures of wood, plywood, and wallboards using the carpenter's hand tools and power tools.Helpers/LaborersPerform tasks involving physical labor in the building, assists the skilled workers, and remove the trash, and residual building debris.Assist in constructing and later disassembling reinforcement braces, concrete forms, scaffolds, and temporary structures.Plant and Equipment:Transit Mixers and AccessoriesConcrete PumpsConcrete VibratorsWooden Float/Steel or Plastic Finishing Float/Power Trowel (if needed)Aluminum Straight Edge/Leica TS 15m Total Station/Leica NA2 Automatic Level/Note:All 3rd Party Certificates shall be inspected prior to commencing work.Survey Equipment Calibration Certificate/Work Force/Site Engineer/Land Surveyor/Survey Aide/Foreman/Machinery Operator/Banksman/Security Guards/Steel Fixers/Carpenter/Helpers/Laborers/HSE Engineer/First Aider/Light Tools/Power Tools (Various)/Hand Tools (Various)/Materials/Ready Mixed Concrete Grade 30/20 SRC Blinding Concrete/Shutters/Formworks/Steel Reinforcement/Shoring/Approved Curing Compound/Polyethylene Sheet/Test Certificates/All Test Certificates for the above materials shall be provided.Excavation Specification/Concrete Specification/Design Mix C30/20 SRC Blinding Concrete/Health and Safety Plan/Note: All concrete blinding works shall comply fully with the applicable laws, client's requirements and as per project specifications.Pre-Start Safety Briefing Arrangements/Protective and Safety Equipment.All workers involved shall be equipped with adequate PPE as stated below:Safety Helmet with Company Logo/Safety Boots/High Visibility Vest/Safety Goggles/Hand Gloves/Coveralls/Safety InductionJob training/Supervisor's Notices/Memos/Toolbox talks/START Card/Workers shall remove or take off immediately any clothing that becomes wet. Wash off the concrete with plenty of water and seek First Aid Treatment, if necessary.The site-specific risk assessment shall be briefed to all personnel prior to the commencement of concrete works/Special Safety Requirements:All necessary personal/protective equipment (PPE), as well as harness, be provided.Banksman, wearing distinctive vests, shall be assigned to help operators maneuver their equipment.The equipment operators shall possess the required licenses and certificates.Generated dust (by end or equipment operations), shall be controlled by periodic water spraying.The required TSTI will be prepared prior to the commencement of work and positively implemented.The project safety officer is responsible along with the project zone site engineer for ensuring that all operations are carried out with due regard to the safety of all project personnel & property.First Aid Material.All lifting works shall be done as per the approved General Lifting Plan.General management of protection/operation hazards is to be observed.In case of working at night, please refer to Method Statement for Night Workstag: Method Statement for Blinding (Lean Concrete Works) TABLE OF CONTENTS Purpose/Scope of Work/Definitions/References/Materials/Tools, Plant & Equipment/Safety/Prior Activities/Procedure/Responsibilities/Attachments 1. Purpose 1.1 To ensure that the blinding for foundation are executed safely and in accordance with the contract requirements and that all quality assurance/control activities are conducted in a systematic manner, works are inspected and conformance is verified and documented. 2. Scope of Work 2.1 This procedure is applicable to the following works associated with the Project titled, New 2K Runway – Main Runway Works – contract number NRTW-1008-CN 2.2 This method statement shall be followed in casting of blinding for foundation at the locations shown on Contract drawings and as directed by the Engineer. 3. Definitions 3.1 CM Construction Manager 3.2 SE Site Engineer 3.3 CS Chief Surveyor 3.4 ME Material Engineer 3.5 ESHO Environmental, Safety, and Health Officer 3.6 ITP Inspection Testing Plan 3.7 JHA Activity Hazard Analysis 3.8 JHA Job Hazard Analysis 4. References 4.1 Specifications Section 401.2 Drawings Vol. 2 – Section 8 – Part D – Architectural and Structural. 4.3 BOQ Bill No. 12, 13, 14, 15, 16, & 17. 5. Material 5.1 Concrete grade 30/20/S 5.2 Formwork (Timber and Aluminum beams) 5.3 Polythene sheet 1000 gauge 6. Tools, Plant & Equipments 6.1 Spirit level 6.2 Measuring tape 6.3 Hammer 6.4 Hand planer 6.5 Carpenter chisel 6.6 Plastic trowel 6.7 Steel trowel 6.8 Broom 6.9 Rain Boot 6.10 Wire Nails 6.11 Generator 6.12 Air compressor 6.13 Electric saw 6.14 Concrete vibrator 6.15 Personal Protective Equipment (PPE) 6.16 Concrete Pump 6.17 Power Flaster 7. Safety 7.1 Prior to the commencement of any activities, the workforce will receive an induction talk on the project site safety requirements. This induction talk will include both activity safety issues, as well as general safety requirements. 7.2 The necessary safety measures will be taken to prevent accident or injury at all times. This may include barriers, warning tape/net, signage, watchman, flashing and rotating lights at night. 7.3 Where work upon existing services may be required, the necessary work permits and safety equipment should be obtained prior to the activity commencement. 7.4 Front line supervisor will ensure that Personal Protective Equipment is worn by site personnel at all times during construction activities. 7.5 Heat stress training will be provided. 7.6 Provisions of adequate cool drinking water, shade, and salt tablets will be in place. 7.7 Plant & Equipment will be provided with back-up alarms, lights, and all other applicable safety devices. 7.8 For AOA work, safety requirements as defined in Project Specification, Section 107, will be implemented. Specific safety training will be provided to personnel for AOA work. 8. Prior Activities 8.1 Foundation shop drawings to be approved by the Engineer. 8.2 Excavation and foundation preparation will be carried out as per submitted method statement. 1008-OAJ-MS-1036 and the final approval of the Engineer. 9. Procedure 9.1 Casting of Blinding 9.1.1 Once the foundation level is approved by the Engineer, the CS shall mark the setting out and fix reference levels for blinding concrete. 9.1.2 The formwork (around 100mm height) shall be fixed and inspected by the Engineer's Inspector. 9.1.3 Polythene sheet 1000 Gauge shall be laid and 75mm thick concrete grade 30/20/S shall be poured, vibrated, leveled to the approved levels. 9.1.4 Special care should be taken to produce smooth and correct final level. 9.1.5 The concrete shall be protected by polythene sheet after finishing and wet hessian covered with polythene sheet after final set. 9.1.6 Concrete surface shall be kept continuously and thoroughly wet for a curing period of 7 days. 10. Responsibilities The CM will coordinate with SE to ensure that the necessary resources to implement the approved Method Statement, JHA and AHA have been allocated to the task. The SE will ensure that the site preparation activities are conducted according to the approved Method Statement, JHA and AHA. The SE will also ensure that all in-situ tests, as required by the ITP are implemented. The ME will ensure that the materials being used are in accordance with the project specifications and approved material submittals. It is the site supervisor's responsibility to organize the work in a safe manner to ensure that safety and protective equipment are being properly utilized. He must also ensure that the AHA and JHA are implemented and the approved Method Statement procedure is followed and the ITP is applied. The Method Statement for Blinding defines the rules to be applied during all the blinding concrete (or lean concrete) activities to ensure that all the works are properly executed in accordance with project specifications, applicable standards, and health, safety & environmental requirements.Table of ContentsMethodology/Responsibilities/Resources/ReferenceInformation to PersonnelA. Pre-pour Concrete Works:Prior to commencing work, an inspection shall be raised for the checking of formation level, formworks, and level pads. All compaction test reports shall be prepared before proceeding with the blinding activity.Anti-termitte applications shall be performed at the readied area. Anti-termitte treatment shall be applied if required based on the project specifications. Whereas a separate method of the statement will be submitted for the application of anti-termitte. The newly placed anti-termitte treatment shall be properly covered by using an approved polythene sheet commonly with a 1000 gauge thickness. The concrete must be poured within 24 hours after the anti-termitte application.Setting out shall be carried out by Surveyor at the formation level for blinding concrete.Visual inspection of strata at the formation level will be carried out by the Engineer for necessary approval.Shuttering shall be installed for concrete blinding and ensure the correct location of the construction joint was provided.Proper ramps/approaches to be made for the concrete pump & concrete mixers to the location of pouring.Sketches showing concrete pump allocation/traffic management plan will be prepared for each pour & will be monitored by Safety Officer for safe movement.The area to be concreted will be cleared from any loose materials; as well as the area will be signalized as prohibited to unauthorized personnel.A blinding concrete mix of grade C30/20N/mm² SRC will be supplied to the site. (Trial mix approval details shall be made available on-site before commencing the work)/The blinding concrete shall be cast in strips not more than 4.0 m wide, in alternating sequence for the width of pouring. Contracting joints shall be provided between adjacent strips with contraction joint at every 4th construction joint.A minimum of 3 days shall elapse between the castings of adjacent strips.Level pads with cement mortar on top levels of the blinding will be established prior to the inspection. Spot reference level marks are to be provided using sand and cement mortar (1:3 mix) or steel pieces. The top level of the reference point indicates the designed blinding finish level. The spacing between reference points shall not be more than 3 meters in any direction.All QC checks such as temperature, slump, etc. will be carried out before placing concrete. Concrete cube samples will be taken for 7 & 28 days of compressive strength testing.If any field test indicates that the concrete may be deficient, the QC will report this to the Lab. and PM, immediately. The PM will review the test results and take the required action.B. Placing of Concrete:Where concrete is conveyed by the pump, access to the pump will be checked prior to the pour. Where concrete is conveyed by a chute, the slope of the chute will allow the concrete to flow without the use of any additional water.The necessary approvals will be obtained from the Engineer for the proposed arrangements before concreting.All placing of concrete will be carried out under the direct supervision of competent staff and in the presence of a Supervisor Consultant.The Site Engineer and the Quality Control Engineer will monitor the concrete placement and will notify the Site Agent of any unacceptable materials or operations for action. Also, they will conduct the sampling and testing of fresh concrete according to the Quality Plan.For night concreting operations, adequate illumination of the working area will be arranged.Blinding concrete will be placed to the specified thickness over inspected surface up to the level as shown in the IFC & approved Shop Drawing. Any over-excavation will be filled with blinding concrete of the same grade.The concrete surface will be leveled/finished properly using an aluminum straight edge.Concrete will be protected immediately after finishing for the duration of the curing period of the environment, including sunshine and dry winds by covering it with a polyethylene sheet.After the final set of concrete has taken place, an approved curing procedure shall be done using an approved curing compound and be covered with polyethylene sheets.The polyethylene sheet should be of sufficient size so that the sheeting shall be returned up the outside faces of the concrete and suitably sealed.The responsibility for blinding concrete works rests primarily with the Site Engineer and Discipline Foreman with assistance from an audit by the Site Agent and inspectors.The Site Engineer and Discipline Foreman shall ensure that the required Quality Control procedures and forms are available in place on a daily basis. Similarly, they shall ensure that the needed drawings are of the latest revisions. The HSE inspection shall take place before concrete works start to ensure that the work area is safe i. e. adequate access, adequate illumination if working on the night shift, good concrete pump arrangements, checking the formwork and supports, and scaffold inspections, if applicable.Project ManagerResponsible for accomplishing the stated project objectives which include creating clear and attainable project objectives, building the project requirements, and managing the constraints of the project management triangle, which are cost, time, scope, and quality.The Project Manager shall be responsible for ensuring that the Project Quality Plan and the Inspection and Testing Procedures, method statement for blinding, HSE safety, and all contractual documentation are maintained up to date and accessible to all parties.Construction ManagerResponsible for overall construction activities ensuring that all method statements for blinding, quality, and safety procedures are implemented and required approval permits are obtained. Site Engineer/Supervise operations in accordance with the approved method statement for blindings, shop drawings, specifications, material submittals, and schedules to achieve the acceptance of the project deliverables. Site Supervisor/Supervise closely, the activities designated to them and ensure that all instructions and safety procedures are followed and strictly adhered to. Supervise the work to ensure that technical, quality, safety, and purchase order requirements are met; Attend daily site meetings and communicate his daily report with the Project/Site Engineer; Participate in the training and development of his subordinates; Organize with the Project/Site Engineer to ensure the availability of plant, equipment, and labor to his designated work activities;Closely monitor the usage of consumables and materials by his crew in order to minimize wastage; Assess the craftsmanship of subordinates under his control.Site Foreman/To liaise with the Site Engineer and Supervisor for the work execution.QA/QC EngineerEnsure the proper implementation of the quality system and monitor the overall quality of the work is maintained. Conduct inspection and monitor tests. Determine and report any nonconformance and recommended corrective actions. Ensure that all personnel is aware of the quality requirement.Training of relevant personnel.Conduct surveillance and inspection duties at various stages to ensure compliance with QA/QC plan.HSE ManagerHealth, safety, and environmental (HSE) managers generally plan, coordinate and implement issues and directives within the organization. They ensure safe environmental working conditions for all employees.HSE EngineerEnsure enforcement of safety procedures in accordance with the approved HSE Plan.Will be closely monitoring the site engineer's strict implementation of the Method Statement for Blindings and Risk Assessment, the use of proper tools and equipment to maintain safety, certifications of equipment and their adherence to safety regulations, reporting of any unsafe work or stopping work that does not comply with ESHK procedures.Advices on Health & Safety requirements and monitors the Hazard controls implemented on-site as per the Method Statement for Blinding and Risk assessment.Chief SurveyorCarry out a pre-construction survey to fix the locations and corresponding elevations as per the approved shop drawings.Ensure quality and compliance during phases of surveying works and the regular checking of the surveying equipment or a periodic calibration from a third party.Ensure the validity and the serial number of calibration certificates are available and posted on the survey equipment.Ensure proper safety guarding of surveying equipment.To maintain the records of all surveying equipment handled.Survey Aide/Maintain and use Surveying equipment. Assist Surveyors in taking measurements, record measurements manually or electronically, and peg out boundaries.Equipment OperatorThe only authorized person to operate any equipment to be used in the project.RiggerThe rigger assists in the movement of heavy equipment and loads to be lifted. A rigger set ups machinery and secures it in place and signals or verbally directs workers engaged in hoisting and moving loads, in order to ensure the safety of workers and materials.First AiderThe first aider responds promptly when requested, operates with competence, knows how to secure additional help when needed, reports incidents and actions taken, and complies with requirements for certification.BanksmanThe role of a banksman is to provide additional eyes and ears to assist the operator of the equipment to navigate or operate safely.CarpentersA carpenter construct erects, installs, and repairs structures and fixtures of wood, plywood, and wallboards using the carpenter's hand tools and power tools.Helpers/LaborersPerform tasks involving physical labor in the building, assists the skilled workers, and remove the trash, and residual building debris.Assist in constructing and later disassembling reinforcement braces, concrete forms, scaffolds, and temporary structures.Plant and Equipment:Transit Mixers and AccessoriesConcrete PumpsConcrete VibratorsWooden Float/Steel or Plastic Finishing Float/Power Trowel (if needed)Aluminum Straight Edge/Leica TS 15m Total Station/Leica NA2 Automatic Level/Note:All 3rd Party Certificates shall be inspected prior to commencing work.Survey Equipment Calibration Certificate/Work Force/Site Engineer/Land Surveyor/Survey Aide/Foreman/Machinery Operator/Banksman/Security Guards/Steel Fixers/Carpenter/Helpers/Laborers/HSE Engineer/First Aider/Light Tools/Power Tools (Various)/Hand Tools (Various)/Materials/Ready Mixed Concrete Grade 30/20 SRC Blinding Concrete/Shutters/Formworks/Steel Reinforcement/Shoring/Approved Curing Compound/Polyethylene Sheet/Test Certificates/All Test Certificates for the above materials shall be provided.Excavation Specification/Concrete Specification/Design Mix C30/20 SRC Blinding Concrete/Health and Safety Plan/Note: All concrete blinding works shall comply fully with the applicable laws, client's requirements and as per project specifications.Pre-Start Safety Briefing Arrangements/Protective and Safety Equipment.All workers involved shall be equipped with adequate PPE as stated below:Safety Helmet with Company Logo/Safety Boots/High Visibility Vest/Safety Goggles/Hand Gloves/Coveralls/Safety InductionJob training/Supervisor's Notices/Memos/Toolbox talks/START Card/Workers shall remove or take off immediately any clothing that becomes wet. Wash off the concrete with plenty of water and seek First Aid Treatment, if necessary.The site-specific risk assessment shall be briefed to all personnel prior to the commencement of concrete works/Special Safety Requirements:All necessary personal/protective equipment (PPE), as well as harness, be provided.Banksman, wearing distinctive vests, shall be assigned to help operators maneuver their equipment.The equipment operators shall possess the required licenses and certificates.Generated dust (by end or equipment operations), shall be controlled by periodic water spraying.The required TSTI will be prepared prior to the commencement of work and positively implemented.The project safety officer is responsible along with the project zone site engineer for ensuring that all operations are carried out with due regard to the safety of all project personnel & property.First Aid Material.All lifting works shall be done as per the approved General Lifting Plan.General management of protection/operation hazards is to be observed.In case of working at night, please refer to Method Statement for Night Workstag: Method Statement for Blinding (Lean Concrete Works) TABLE OF CONTENTS Purpose/Scope of Work/Definitions/References/Materials/Tools, Plant & Equipment/Safety/Prior Activities/Procedure/Responsibilities/Attachments 1. Purpose 1.1 To ensure that the blinding concrete (or lean concrete) activities to ensure that all the works are properly executed in accordance with project specifications, applicable standards, and health, safety & environmental requirements.Table of ContentsMethodology/Responsibilities/Resources/ReferenceInformation to PersonnelA. Pre-pour Concrete Works:Prior to commencing work, an inspection shall be raised for the checking of formation level, formworks, and level pads. All compaction test reports shall be prepared before proceeding with the blinding activity.Anti-termitte applications shall be performed at the readied area. Anti-termitte treatment shall be applied if required based on the project specifications. Whereas a separate method of the statement will be submitted for the application of anti-termitte. The newly placed anti-termitte treatment shall be properly covered by using an approved polythene sheet commonly with a 1000 gauge thickness. The concrete must be poured within 24 hours after the anti-termitte application.Setting out shall be carried out by Surveyor at the formation level for blinding concrete.Visual inspection of strata at the formation level will be carried out by the Engineer for necessary approval.Shuttering shall be installed for concrete blinding and ensure the correct location of the construction joint was provided.Proper ramps/approaches to be made for the concrete pump & concrete mixers to the location of pouring.Sketches showing concrete pump allocation/traffic management plan will be prepared for each pour & will be monitored by Safety Officer for safe movement.The area to be concreted will be cleared from any loose materials; as well as the area will be signalized as prohibited to unauthorized personnel.A blinding concrete mix of grade C30/20N/mm² SRC will be supplied to the site. (Trial mix approval details shall be made available on-site before commencing the work)/The blinding concrete shall be cast in strips not more than 4.0 m wide, in alternating sequence for the width of pouring. Contracting joints shall be provided at every 4th construction joint.A minimum of 3 days shall elapse between the castings of adjacent strips.Level pads with cement mortar on top levels of the blinding will be established prior to the inspection. Spot reference level marks are to be provided using sand and cement mortar (1:3 mix) or steel pieces. The top level of the reference point indicates the designed blinding finish level. The spacing between reference points shall not be more than 3 meters in any direction.All QC checks such as temperature, slump, etc. will be carried out before placing concrete. Concrete cube samples will be taken for 7 & 28 days of compressive strength testing.If any field test indicates that the concrete may be deficient, the QC will report this to the Lab. and PM, immediately. The PM will review the test results and take the required action.C. Placing of Concrete:Where concrete is conveyed by the pump, access to the pump will be checked prior to the pour. Where concrete is conveyed by a chute, the slope of the chute will allow the concrete to flow without the use of any additional water.The necessary approvals will be obtained from the Engineer for the proposed arrangements before concreting.All placing of concrete will be carried out under the direct supervision of competent staff and in the presence of a Supervisor Consultant.The Site Engineer and the Quality Control Engineer will monitor the concrete placement and will notify the Site Agent of any unacceptable materials or operations for action. Also, they will conduct the sampling and testing of fresh concrete according to the Quality Plan.For night concreting operations, adequate illumination of the working area will be arranged.Blinding concrete will be placed to the specified thickness over inspected surface up to the level as shown in the IFC & approved Shop Drawing. Any over-excavation will be filled with blinding concrete of the same grade.The concrete surface will be leveled/finished properly using an aluminum straight edge.Concrete will be protected immediately after finishing for the duration of the curing period of the environment, including sunshine and dry winds by covering it with a polyethylene sheet.After the final set of concrete has taken place, an approved curing procedure shall be done using an approved curing compound and be covered with polyethylene sheets.The polyethylene sheet should be of sufficient size so that the sheeting shall be returned up the outside faces of the concrete and suitably sealed.The responsibility for blinding concrete works rests primarily with the Site Engineer and Discipline Foreman with assistance from an audit by the Site Agent and inspectors.The Site Engineer and Discipline Foreman shall ensure that the required Quality Control procedures and forms are available in place on a daily basis. Similarly, they shall ensure that the needed drawings are of the latest revisions. The HSE inspection shall take place before concrete works start to ensure that the work area is safe i. e. adequate access, adequate illumination if working on the night shift, good concrete pump arrangements, checking the formwork and supports, and scaffold inspections, if applicable.Project ManagerResponsible for accomplishing the stated project objectives which include creating clear and attainable project objectives, building the project requirements, and managing the constraints of the project management triangle, which are cost, time, scope, and quality.The Project Manager shall be responsible for ensuring that the Project Quality Plan and the Inspection and Testing Procedures, method statement for blinding, HSE safety, and all contractual documentation are maintained up to date and accessible to all parties.Construction ManagerResponsible for overall construction activities ensuring that all method statements for blinding, quality, and safety procedures are implemented and required approval permits are obtained. Site Engineer/Supervise operations in accordance with the approved method statement for blindings, shop drawings, specifications, material submittals, and schedules to achieve the acceptance of the project deliverables. Site Supervisor/Supervise closely, the activities designated to them and ensure that all instructions and safety procedures are followed and strictly adhered to. Supervise the work to ensure that technical, quality, safety, and purchase order requirements are met; Attend daily site meetings and communicate his daily report with the Project/Site Engineer; Participate in the training and development of his subordinates; Organize with the Project/Site Engineer to ensure the availability of plant, equipment, and labor to his designated work activities;Closely monitor the usage of consumables and materials by his crew in order to minimize wastage; Assess the craftsmanship of subordinates under his control.Site Foreman/To liaise with the Site Engineer and Supervisor for the work execution.QA/QC EngineerEnsure the proper implementation of the quality system and monitor the overall quality of the work is maintained. Conduct inspection and monitor tests. Determine and report any nonconformance and recommended corrective actions. Ensure that all personnel is aware of the quality requirement.Training of relevant personnel.Conduct surveillance and inspection duties at various stages to ensure compliance with QA/QC plan.HSE ManagerHealth, safety, and environmental (HSE) managers generally plan, coordinate and implement issues and directives within the organization. They ensure safe environmental working conditions for all employees.HSE EngineerEnsure enforcement of safety procedures in accordance with the approved HSE Plan.Will be closely monitoring the site engineer's strict implementation of the Method Statement for Blindings and Risk Assessment, the use of proper tools and equipment to maintain safety, certifications of equipment and their adherence to safety regulations, reporting of any unsafe work or stopping work that does not comply with ESHK procedures.Advices on Health & Safety requirements and monitors the Hazard controls implemented on-site as per the Method Statement for Blinding and Risk assessment.Chief SurveyorCarry out a pre-construction survey to fix the locations and corresponding elevations as per the approved shop drawings.Ensure quality and compliance during phases of surveying works and the regular checking of the surveying equipment or a periodic calibration from a third party.Ensure the validity and the serial number of calibration certificates are available and posted on the survey equipment.Ensure proper safety guarding of surveying equipment.To maintain the records of all surveying equipment handled.Survey Aide/Maintain and use Surveying equipment. Assist Surveyors in taking measurements, record measurements manually or electronically, and peg out boundaries.Equipment OperatorThe only authorized person to operate any equipment to be used in the project.RiggerThe rigger assists in the movement of heavy equipment and loads to be lifted. A rigger set ups machinery and secures it in place and signals or verbally directs workers engaged in hoisting and moving loads, in order to ensure the safety of workers and materials.First AiderThe first aider responds promptly when requested, operates with competence, knows how to secure additional help when needed, reports incidents and actions taken, and complies with requirements for certification.BanksmanThe role of a banksman is to provide additional eyes and ears to assist the operator of the equipment to navigate or operate safely.CarpentersA carpenter construct erects, installs, and repairs structures and fixtures of wood, plywood, and wallboards using the carpenter's hand tools and power tools.Helpers/LaborersPerform tasks involving physical labor in the building, assists the skilled workers, and remove the trash, and residual building debris.Assist in constructing and later disassembling reinforcement braces, concrete forms, scaffolds, and temporary structures.Plant and Equipment:Transit Mixers and AccessoriesConcrete PumpsConcrete VibratorsWooden Float/Steel or Plastic Finishing Float/Power Trowel (if needed)Aluminum Straight Edge/Leica TS 15m Total Station/Leica NA2 Automatic Level/Note:All 3rd Party Certificates shall be inspected prior to commencing work.Survey Equipment Calibration Certificate/Work Force/Site Engineer/Land Surveyor/Survey Aide/Foreman/Machinery Operator/Banksman/Security Guards/Steel Fixers/Carpenter/Helpers/Laborers/HSE Engineer/First Aider/Light Tools/Power Tools (Various)/Hand Tools (Various)/Materials/Ready Mixed Concrete Grade 30/20 SRC Blinding Concrete/Shutters/Formworks/Steel Reinforcement/Shoring/Approved Curing Compound/Polyethylene Sheet/Test Certificates/All Test Certificates for the above materials shall be provided.Excavation Specification/Concrete Specification/Design Mix C30/20 SRC Blinding Concrete/Health and Safety Plan/Note: All concrete blinding works shall comply fully with the applicable laws, client's requirements and as per project specifications.Pre-Start Safety Briefing Arrangements/Protective and Safety Equipment.All workers involved shall be equipped with adequate PPE as stated below:Safety Helmet with Company Logo/Safety Boots/High Visibility Vest/Safety Goggles/Hand Gloves/Coveralls/Safety InductionJob training/Supervisor's Notices/Memos/Toolbox talks/START Card/Workers shall remove or take off immediately any clothing that becomes wet. Wash off the concrete with plenty of water and seek First Aid Treatment, if necessary.The site-specific risk assessment shall be briefed to all personnel prior to the commencement of concrete works/Special Safety Requirements:All necessary personal/protective equipment (PPE), as well as harness, be provided.Banksman, wearing distinctive vests, shall be assigned to help operators maneuver their equipment.The equipment operators shall possess the required licenses and certificates.Generated dust (by end or equipment operations), shall be controlled by periodic water spraying.The required TSTI will be prepared prior to the commencement of work and positively implemented.The project safety officer is responsible along with the project zone site engineer for ensuring that all operations are carried out with due regard to the safety of all project personnel & property.First Aid Material.All lifting works shall be done as per the approved General Lifting Plan.General management of protection/operation hazards is to be observed.In case of working at night, please refer to Method Statement for Night Workstag: Method Statement for Blinding (Lean Concrete Works) PERSONNEL RESPONSIBILITIES. Project Specific Details. The purpose of this Method of Statement for blinding concrete is to outline the materials and labor required to undertake the works in a safe and controlled manner, compiling with relevant legislation, standards and codes of practice etc. The method statement shall be briefed to all appropriate operatives to ensure that they are aware of the sequence of activities and any Client/Consultant project specific requirements. A constant monitoring and supervision duty shall be undertaken by contractor to ensure work activities are carried out in accordance with the method statement. Any irregularities shall be immediately action. This method statement describes the working procedure for blinding concrete and all related activities. This will include surface preparation, application, testing and post application. Prior to works commencing, the Site Engineer shall ensure that the following activities have been completed and signed-off by the Consultant: Drawing must be approved for construction by the Consultant. Materials Submitting for blinding / screed is approved by Consultant. The Site Engineer shall ensure that the necessary Statutory Authorities approvals have been received. Approved drawings for construction. Project specification Section. Approve project quality & safety plan. Approved concrete materials. Approved Inspection of preliminary work (Back filling, anti-termitte, and level verification). The excavation and back filling shall be completed up to the designed foundation level. All appropriate forms shall be signed-off by Engineer. All compaction test report shall be approved before proceeding with blinding works. Surveyor will validate the level based on the approved drawing and marking around the blinding perimeter will be provided. All extra soil and loose material shall be removed from the excavated area where blinding is to be done. Anti-termitte treatment shall be applied if required based on the project specification. Separate method of statement will be submitted for the application of anti-termitte. Plastic protection (polythene sheet) will be provided as per approved material submittal. Spot reference level marks to be provided using sand and cement mortar (1:3 mix) or steel pieces. The top level of the reference point indicates the designed blinding finish level. The spacing between reference points shall not be more than 3 meters in any direction. Side shutter shall be fixed as per approved drawing and marking was provided by the surveyor. Finishing level should be marked on the side shutter. The concrete shall be in accordance to approved mixed design from approved concrete supplier with the required compressive strength of C12/15 or 15 MPa cube strength at 28 days. Casting will take place using mobile pump or concrete bucket depending on casting quantity and as per site condition. Blinding levels shall be determined via level mark. Curing will be done as per project specification. No activity will take place without completing the required curing period as per specification. Compressive strength (cylinder/cubes) C12/15 as per project specification. Sampling collection will be every 50 cubic meter, 2 cubes for 7 days, 2 cubes for 28 days and 2 cubes for spare. A full and detailed description of the roles and responsibilities of all contractor staff is included within the Project Quality Plan. For the works as covered by this method statement, the following personnel have specific duties. Technical Officer Engineer. Specific responsibilities include: Responsible for ensuring that the various submitting are timely undertaken (materials, method statements, workshop drawings, subcontractor's issues, technical issues). Responsible for quotations as required (materials, subcontractors). Responsible for ensuring RFI's are timely undertaken on behalf of contractor. Responsible for the distribution of documents within contractor site personnel. Specific responsibilities include: Ensuring that the project is managed in a safe manner and meets the requirements of the project documentation. Ensuring that subcontractors and suppliers achieve the on-site required standards. Ensuring the Client is satisfied with our performance. Ensuring performance measurable are delivered. Shall refer to the QA/QC Department and the HSE Department for advice and guidance when required. Shall ensure that operatives comply with the relevant method statements, Toolbox Talks and general site briefings. HSE Site Representative(s). Specific responsibilities include: Assisting in the production of any health, safety, and environmental documents. Monitoring the implementation of health, safety, and environmental requirements. Undertaking audits and ensuring that corrective and preventive actions are taken where required. Liaison with the senior site staff on health, safety, and environmental related matters. QA/QC Site Representative(s). Specific responsibilities include: Carrying out phased inspections as required. Ensuring that completed works are offered for inspection/approval to external companies within specific dates/programmes. Ensuring that all required tests are performed and follow appropriate specifications etc. Reviewing and ensuring that all shop drawings and material submittals are presented to the appropriate bodies with adequate supporting information. Ensuring that materials are inspected when delivered to ensure they meet the project specifications. Maintaining a record of all QA/QC activities on site. Controlling and ensuring all measuring and test equipment on site is properly calibrated. Controlling all non-conforming products or workmanship and implementing the required preventive actions. Ensuring that corrective and preventive actions are taken when required. Ensuring that the required testing is undertaken by approved independent laboratories, and that all test results are reviewed. Undertake audits to ensure conformance to agreed Standards, Legislation, and project specific requirements. Ensuring that staffs are aware of their responsibilities in respect of quality issues. Assisting and reporting to the QA/QC Manager as required. Specific responsibilities include: To ensure that all operatives and appropriate subcontractors have been briefed as to the content of the method statement and the works. To adequately control the works as required. To ensure the works are undertaken in a safe manner. To ensure all operatives are adequately training in their respective works. Reporting any unsafe practices on site to the contractor site team. Specific responsibilities include: To undertake their works as specified. To work in a safe manner. To ensure all operatives are adequately training in their respective works. Report any unsafe practices on site to the contractor site team. The contractor Project Safety Plan shall be strictly enforced. All works shall be regularly monitored to ensure full compliance. Contractor shall resource as appropriate the supervision of the works. Permits - Where required, permits to work will be provided prior to commencement of works. Permits shall be issued by suitably trained and experienced HSE personnel only. PPE - All required PPE shall be issued. Constant monitoring and supervision of the works shall always ensure that the appropriate PPE is worn by affected operatives. Access and egress - Routine access and egress will always be provided for materials and operatives. Where emergency routes are required. These shall be determined and arranged, and instructions given prior to commencement of the works. Contractor supervision shall ensure that all material deliveries are coordinated, and all vehicles are parked in a position where they present no additional risk to the public or people associated with this project. Where vehicles are offered from public areas, the activity shall be supervised, and a dedicated offloading/storage area shall be provided. Plant - All plant associated with this activity shall be inspected prior to the work commencing and at regular periods during the works to ensure that all required certification is current and that the plant is maintained in a safe and suitably working manner. Lighting - At all times, appropriate and suitable lighting shall be provided to ensure the works can be undertaken in a safe and competent manner. Working at height - Where required, all appropriate measures shall be enforced to ensure that operatives are afforded a safe and proper platform from which to work. Materials will be stacked in a safe and secure manner. Scaffolds shall be erected by competent operatives to an agreed design. Scaffolds shall be inspected before use and at regular periods thereafter. Housekeeping - At all times, contractor supervision shall monitor the works to reduce as far as reasonably practical the storage of rubbish, waste materials and debris at the work face. All waste materials shall be removed from the workplace to a suitable area. Contractor shall identify the needs for training and/or certification of personnel to ensure that suitable levels of proficiency are attained and maintained in order to meet the specified requirements of the project. Determine the necessary competence for personnel performing work affecting its quality. Provide training or take other actions as to satisfy those needs. Evaluate the effectiveness of action taken. Ensure that its personnel are aware of the relevance and importance of their activities and how they contribute to the achievement of the product. All records shall be maintained. Prior to these works commencing, a review of the activities shall be undertaken in association with the operatives undertaking the duties. This will identify where additional training over, and above existing knowledge or experience is required. This Method Statement shall be communicated to appropriate personnel connected with the undertaking of these works. This is essential to the safe and successful completion of the operation. The method statement shall be signed every time the operatives are briefed. Project specific Shop Drawings: Project specific Material Approvals: Project specific Manpower Task(s)/ Operation(s)/ Process(s) Permits required for these works: Plant and equipment required for these works: The use of machinery that will be used on site: Concrete Pump Concrete bucket Note: All machinery need to be certified, will be daily checked, maintained, and refuel. Operators must be licensed and well trained. Both machinery and operators will be constantly checked by competent person during operation. Demonstration will be conducted as per the requirement of the Engineer. Also, you can review block work and plaster work method statement.