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|-------------------|-----------------|------------------------|-----------|-------------------------------------------------------------------------------------------------------------|------------------|--|--------------|
| Serial No. | Department | Equipment | Location | Job description: | | | |
| | Support Service | | | Name of the work:- " Construction of RCC framed boundary wall in place of old brick boundary wall at ITPS." | | | |
| JSA performed by: | Signature | Reviewed & Approved by | Signature | Date of Issue | Date of revision | | Revision No- |
| | | | | | | | |

HAZARD TEXT/TYPE (For reference to identify the Hazard type)

| PHYSICAL HAZARDS | PHYSICAL HAZARDS | PHYSICAL HAZARDS | ELECTRICAL HAZARDS | CHEMICAL/ GAS HAZARDS | EXCAVATION | OTHERS | |
|-----------------------------------|-----------------------------|----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------|--|
| Noise | Fall from height | Force (Push/Pull) | Shock/ Electrocutation | Flammable/ Explosive substances | Collapse/Sliding | Fire | |
| Radiation | Fall (Slip/Trip) | Caught in/on or between | Static electricity | Inhalation of toxic fumes | Underground live cable damage | Heavy Wind/Rain | |
| Confined space | Fall down/below | Struck by/against | Arcflash/ blast | Ingestion/Abso rption | ERGONOMICS | Dust exposure | |
| Exposure to pressurised Steam/Air | Fall of Objects from height | Extreme weather (Hot/Cold) | BIOLOGICAL HAZARDS | Body/Eye Contact | Poor Posture | Oil spill | |
| Contact with Hot surface | Contact with moving parts | Poor illumination | Snake/Insect bite/Virus infection | Spillage | Repeatative motion | Human factor | |

PPEs to be used Safety helmet, shoe, hand gloves, earplug, dustmask, googles.

Tools required JCB, Phowrah, belcha etc

Important Note- While deciding hazard control measures, consider hierarchy of hazard control steps in order of preference.

| SEQUENCE OF BASIC STEPS | SAFETY, HEALTH & ENVIROMENT HAZARDS | SAFE JOB STEPS / HAZARD CONTROL MEASURES | | | | Are control Measures adequate to mitigate the risk (Yes/No) |
|----------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|
| | | Elimination/ Substitution | Engineering | Administrative | PPE | |
| 1) Excavation of earth by using JCB/Excavator | 1) Contact with live cable/equipment may cause shock/electrocution | na | Excavation clearance may please be taken before starting of excavation. | na | na | Yes |
| | 2) Fall (Slip/Trip) | na | Working site shall be cleaned. A ramp shall me made for accessing inside the excavated pit. | na | na | Yes |
| | 3) Struck by/against | na | Experienced operator shall be deployed for dressing/excavtion. | Workers shall be instructed to work carefully. | Use safety helmet, shoe, hand gloves and googles. | Yes |
| | 4) Poor posture | na | 4) Work safely and take rest in between. | na | na | Yes |
| | 5) Fall (Down/Below) after excavtion | na | n | 5) Barricade the excavted area after excavation. | na | Yes |
| | 6) Contact with the swing portion of machine. | na | Stay away from the machine. | Deploy a signal m | na | Yes |
| | 7) Traffic hazard | na | na | Barricade the area. & deploy a signal man. | na | Yes |
| 2) Cutting steel, Shuttering and concreting works, | 1) Body/Hand injury | na | Work carefully | Deploy trained workmen | Use safety helmet, shoe, hand gloves. | Yes |
| | 2) Cutting of hand | | | | | Yes |
| | 3) Contact with fire sparks | na | na | na | Face shield must be used and apron shall be used if required. | Yes |
| | 4) Exposure to cement dust | na | na | na | Use safety googles and nose mask. | Yes |
| | 5) Irritation on hand/legs | na | na | na | Use rubber hand gloves and gum boot. | |

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|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----|
| 3) Dismantling of brick wall and construct the same. | 1) Fall (Slip/Trip) | na | na | Clean the working site properly. | na | Yes |
| | 2) Biological hazard | na | Work very cautiously | na | Use gum boot inside drain. | Yes |
| | 3) Exposure to cement dust | na | na | na | Use ear plug, safety goggles and dust mask. | Yes |
| | 4) Hand/leg injury | na | na | na | Use hand gloves and boot during working inside the drain. | Yes |
| | 5) Irritation on hand/leg for cement concrete works. | na | na | na | Use rubber hand gloves and boot for cement works. | Yes |
| | 6) Biological hazard | na | na | Work carefully. Deploy trained workmen. | na | Yes |
| 4) Working with mixture machine.(If required) | 1) Contact with moving equipments. | na | Keep distance from the movable/swing area of the machine. | Barricade the movable shaft of mixture machine. Keep distance. Loose clothes should no be wear near by. | na | Yes |
| Emergency Safety Measures (Rescue/Fire Brigade etc): | | Emergency Contacts-Main Control Room- 222, 233,244, Fire- 777, 222257, Ambulance- 248/337, Hospital-666 | | | | |
| Overall Job Risk Category- (High/Medium/Low) : | High | | | | | |
| JSA Review during PJB: | | | | | | |
| Pre Job Briefing (PJB) is applicable to all persons involved with the task. | | | | | | |
| Pre Job Briefing (PJB) Acknowledgement: I undertake that the JSA is communicated to me effectively | | | | | | |
| Name | Agency's name | Signature | | | | |
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