

Method Statement

Project:	11 Thornhill Road , Ickenham		
Activity:	Demolition of the existing single storey building and new build for a new 2 storey dwelling and loft.		
Description:	Demolition using a Digger		
Start Date:	Feb 2023	Duration:	3-4 week
Assessor:	Jag Kumari	Hours of Work:	8am-6pm(Monday to Friday) 9am-1pm (Sat)

Responsibilities

Project Manager:	TBA
Supervisor:	N/a
Number of Operatives:	4-6

Hazards

Hazards Associated With Activity:	Demolition Asbestos(n/a) Manual Handling Use of Hand Tools Use of Plant Scaffolding Falls from Height Falls of Materials Uncontrolled Collapse Dust Noise Vibration
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Site Specific
Hazards:

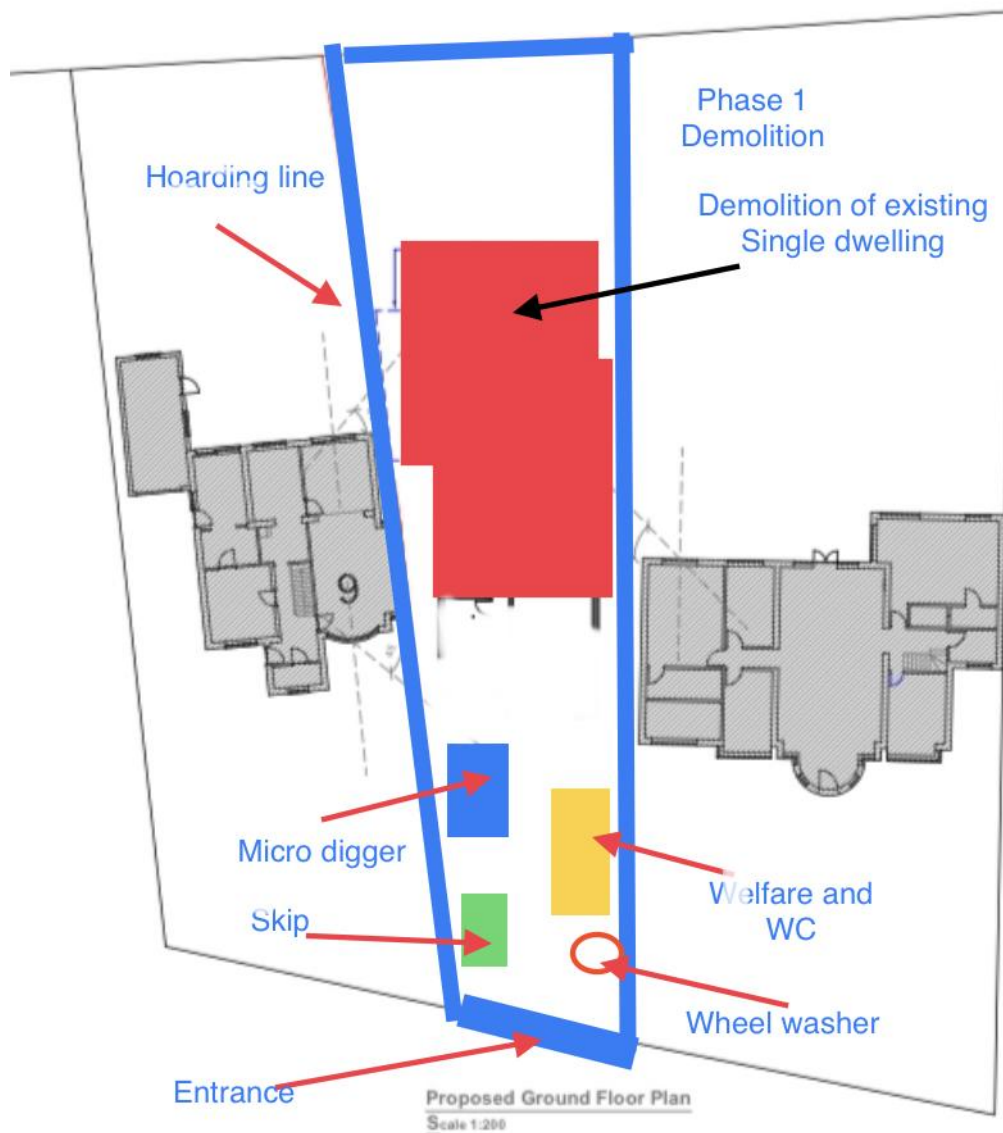
Overhead work
Building services
Asbestos
Access
Security

Risk assessments will be carried out for the activity and attached to this method statement, will form part of the induction and must be followed on site.

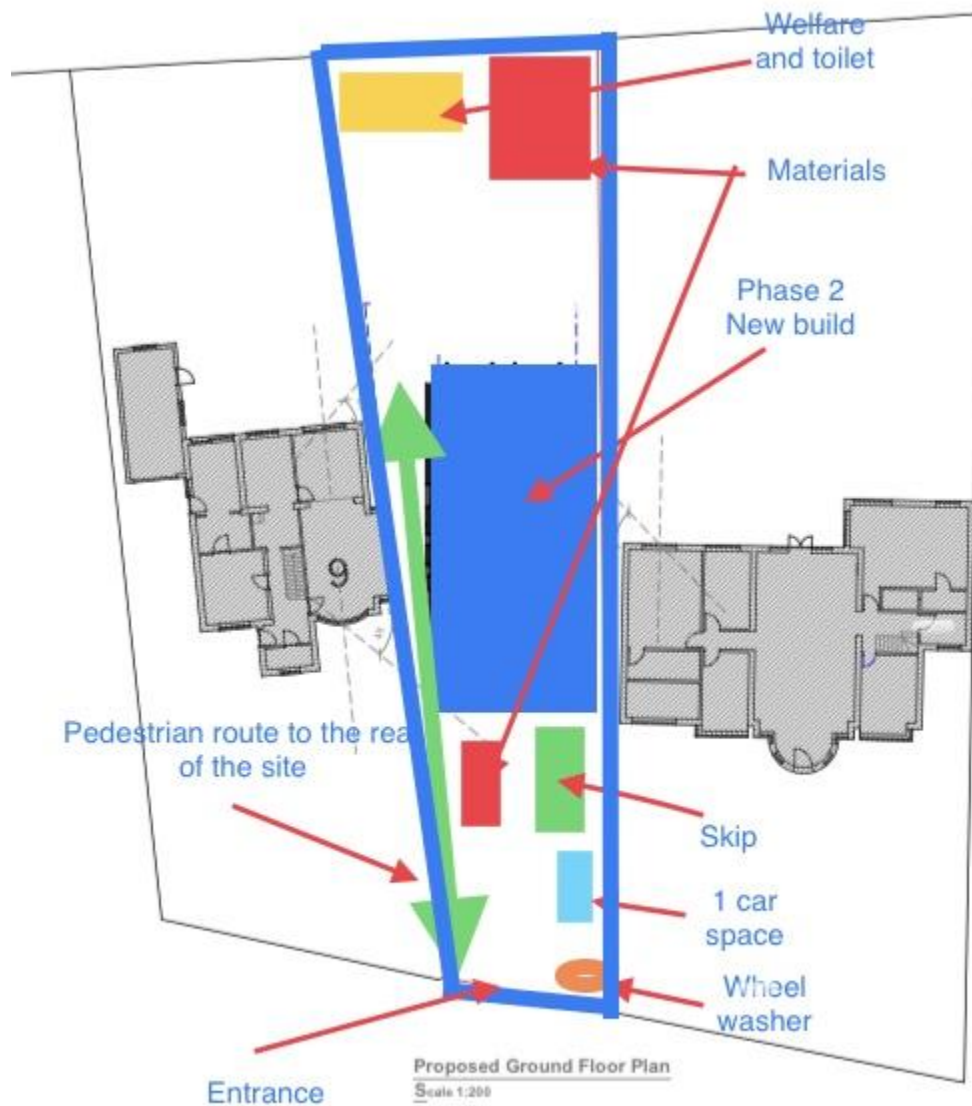
Site Introduction

Demolition of an existing single storey dwellinghouse and erection of a two storey detached dwellinghouse with habitable roof space and associated landscaping and car parking.

Phase 1 site location set up



Phase 2 - Construction Phase



Site fencing/hoarding

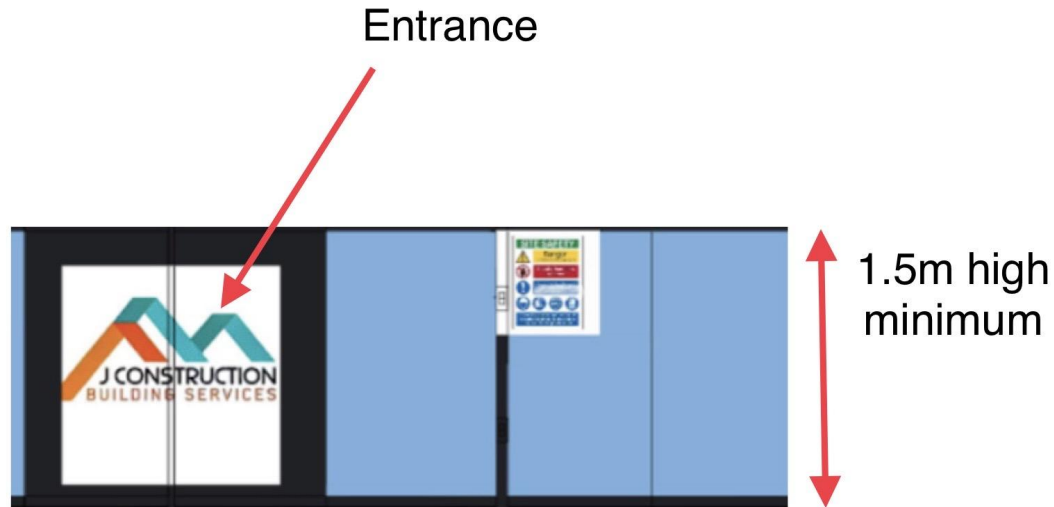
The fencing shall be retained in position until development is completed.

The area within the approved protective fencing shall remain undisturbed during the course of the works and in particular in these areas:

- 2.a There shall be no changes in ground levels;
- 2.b No materials or plant shall be stored;
- 2.c No buildings or temporary buildings shall be erected or stationed.
- 2.d No materials or waste shall be burnt; and.

2.e No drain runs or other trenches shall be dug or otherwise created, without the prior written consent of the Local Planning Authority.

3. Where the arboricultural method statement recommends that the tree protection measures for a site will be monitored and supervised by an arboricultural consultant at key stages of the development, records of the site inspections / meetings shall be submitted to the Local Planning Authority.



Tree Protection Zones

The roots of a tree help to keep it healthy and upright. Roots tend to be found in the top 600mm of soil and usually grow out further than the trees height. If roots are damaged this can cause irreversible harm and could lead to the trees death.

There are zones surrounding a tree where certain rules apply to help prevent damage to roots.

1. Prohibited Zone

The prohibited zone is located one metre away from the trunk (red line on the above diagram). Unless a full consideration with the Local Authority tree officer has occurred, no excavations can be carried out in the prohibited zone.

You are also not able to store materials, plant and spoil in this zone.

2. Precautionary Zone

The precautionary zone is four times the tree circumference (yellow line on the above

diagram). If excavations must be taken out in this zone, use of mechanical excavation is not allowed. If there are any exposed roots, then precautions must be taken to protect them.

You are also not able to store materials, plant and spoil in this zone.

3. Permitted Zone

This is any area further than the precautionary zone. Excavation work can be carried out in this zone, but with caution and limited use of mechanical plant. Again, any exposed roots in this zone should still be protected.

Additional Control Measures

The British Standard also recommends that the following practices should be followed when construction work is being carried out to protect trees:

- Protected Zones – a fenced off area around the tree should be established to eliminate damage during construction. This area should be fenced off and the rules for each zone must be followed.
- Avoid Compaction of Soil – Soil compaction destroys the soils pore structure, making it hard for trees to uptake water. This can be caused by storage of equipment or using area as a thoroughfare.
- Considered Excavation – when excavating for foundations and utilities, the welfare of root systems must be considered. The closer the excavation is to a tree, the more likely the chance of damage.
- Ground level change – root locations should be acknowledged. Increases in ground level could cause compaction, consequently suffocating shallower roots. Reduction in ground level can cause severance of roots and altered drainage rates, affecting water availability.
- Machinery Impact – torn branches, damaged bark and wounds to the trunk can lead to decay and disease of the tree.
- Contamination of soil – leakage of chemicals from construction materials needs to be avoided through correct storage. The storage of such substances must not be kept within the protection zone and should be downhill from the tree.

Site Logistics

Designated vehicle and pedestrian access points to be put in place as part of the site set up. All people accessing the site and report to the site office to sign in each day.

All operatives will be fully licensed for their vehicles.

Parking only within a designated parking area which is within the site boundary, additional parking if requires has also been discussed with a neighbour if the need arises, care must be taken to obey parking restrictions and to avoid blocking access to neighbouring properties or emergency services.

All operatives will be made fully aware of any restrictions on deliveries within the site boundaries. All delivery drivers will be instructed to report to the Site Manager on arrival, and, where necessary, a banks man will be provided for the vehicle while within the site boundary.

All materials will be delivered in pallets and a Hiab will lift the materials into the front area within the hoarding and then moved to the service yard area using a pallet truck. Plant will only be used during demolition and foundation stage, there are no restrictions for plant movement on site. Materials will be offloaded within the site boundaries and the materials will be stored in the service yard area, the site boundary will be determined by the 1.5 m high hoarding and gate for deliveries. The main road will be maintained, and washed as necessary.

All deliveries are restricted to 8am - 5pm (Mon - Fri) and 9am - 1pm (Sat)

Work Procedure & Control Measures

The work will be supervised and monitored at all times by a competent site / task-specific supervisor.

All work to be carried out in accordance with the risk assessments, construction phase plan in place, and other H&S management documents in place.

Site compound and welfare facilities to be set up in an area agreed with the client or existing welfare facilities to be used.

Identification of any conflicts of other working groups or work activities operating within the same area and specify communication and liaison arrangements to control additional risks.

Work area to be securely cordoned off to prevent unauthorized access. Only authorized personnel will be allowed access to the work area. All personnel, including visitors to the site, must sign in on arrival and sign out when leaving the site. Appropriate signage will be suitably displayed around the work area.

PPE to be worn at all times on site.

TRAINING

Only qualified/certified or otherwise competent personnel will be permitted to undertake the work.

All operatives are to receive training on manual handling techniques, asbestos awareness, and work at height.

All workers to undertake site induction prior to commencing work.

Toolbox talks will be carried out at weekly intervals during the works to raise awareness of relevant H&S issues.

ACCESS Equipment

Work at height will be eliminated where possible, through changing work procedures or using alternative equipment.

Step ladder and ladders are only to be used for access and short duration work, and only when there is no suitable alternative such as full access scaffolding, tower scaffold or MEWP.

Tower scaffolds to be erected by PASMA trained operatives. MEWPS to be used by suitably trained operatives (e.g. IPAF).

Access equipment will be securely stored at the end of each shift to prevent unauthorised use.

Exclusion zones will be established in the area below any overhead works, using suitable barriers and signage, to protect people below from risk of any falling tools or materials.

SECURITY

The site boundary will be secured with minimum of 2m high fencing and secure, lockable entrance gates.

All accessible boundaries will display construction site warning signage to prevent and deter unauthorized access.

All persons entering the site will be required to report to the site office to sign in and be inducted.

All visitors will be accompanied at all times.

Prior to vacating the site at the end of each shift, all entrances will be locked shut.

The site boundary will be inspected daily for signs of attempted access or gaps, missing signage or other security breaches which will be addressed prior to leaving the site.

SITE PLANT (micro digger)

Site traffic routes to form part of the site induction.

Pedestrian routes kept away from the mobile plant at all times.

The plant to be maintained in accordance with the manufacturer's recommendations / planned maintenance schedule and visually inspected before use.

Any faults or defects are to be reported and the plant taken out of use.

Only those that have been trained and are competent are authorized to use the plant on site.

Site rules, speed limits, and one-way systems and access routes, to be obeyed at all times.

Reversing to be minimized on-site and only turning is in the designated areas.

Signaller/banks man used when reversing.

Strictly no carrying of passengers.

If hard hat removed within the protection of the machine cab must be worn during entry and exit of the cab and at all other times on site.

No lifting of more than the safe working load.

Lifting plan completed when using the plant for lifting operations by the hire company. .

Stop blocks used as required to avoid overturning/excavations / unsuitable ground.

Designated refueling areas established for refueling plant on site.

Plant immobilized at end of use to prevent unauthorized access. Keys will never be left unattended with plants.

DEMOLITION

Work will be controlled by a permit for demolition. Solid timber hoardings will be erected to the site boundaries.

All workers and visitors will be required to sign in with the site manager and undertake a site induction.

All existing services (Electrical, Gas, Water) will be disconnected from the building prior to commencement of any demolition works, with confirmation issued from service providers using CAT scanner.

Temporary welfare facilities will be provided throughout the duration of the project. PPE must be worn at all times on site. The site will be surveyed as to the foreseeable impact on any adjacent structures and temporary support or piecemeal demolition by hand to be carried out in at-risk areas.

A Refurbishment and Demolition Asbestos Survey will be carried out prior to any works commencing.

Any asbestos identified will be removed from the site by a licensed asbestos removal contractor, in accordance with current Control of Asbestos Regulations, and disposed of as hazardous asbestos waste to a licensed waste site. Waste transfer notice to be provided as a confirmation. Soft strip-out works will then commence with the removal of all internal fixtures and fittings by hand.

Appropriate hand tools will be used to remove shelving, cupboards, electrics, doors, etc.

All glass products i.e. exterior windows will be left intact, to be removed remotely during structural demolition

All soft strip out materials will be disposed of into skips and removed from the site.

Materials will be segregated for re-use and recycling where possible.

The roof will be de-constructed in the reverse order of construction, by hand, working from fixed scaffolding erected to the external elevations with suitable edge protection.

Tiles and fixings will be transferred to the ground floor level by rubble chute fixed to scaffolding.

Timber joists will be lowered to the ground and placed in a skip with the use of mechanical equipment.

Mechanical equipment will be used to demolish the remaining structure carefully demolishing top-down using push/pull action grabbing/breaking sections inwards.

The plant will be located in the correct position relative to the workforce at all times, in accordance with the manufacturer's instructions to ensure stability and safe operation.

Mechanical equipment operated by CPCS Certificated operatives, positioned at a safe distance.

All personnel will be removed from the demolition area, and the site will be checked to be clear prior to the commencement of mechanical demolition works.

Hoarding will be erected as required within the site to prevent access to danger zones during the demolition sequence. Neighbors will be consulted on a regular basis with regard to any noisy or dusty operations.

Dust will be controlled by the use of mains pressure water feed up the boom of the mechanical equipment. Additional damping down will be carried out by handheld methods as required to minimize dust creation and spread on any stock piles.

Noise will be limited to the working hours only (Mon-Fri 8am-5pm and Sat 9am -1pm) will be controlled by machine and equipment selection and through demolition techniques.

Ear defenders will be worn during noisy operations such as mechanical demolition works, use of breakers etc.

The demolition sequence will start with the roof area and work downwards. A bank man will convey information to plant operative throughout demolition. A micro digger will be used to clear the ground floor level of debris. Redundant drains and foundations will be grubbed up and

removed from the site. The Grab lorry will be positioned on site to collect debris off site which will be put in one pile using the micro digger on site. Steel plates to protect any underground drainage remaining.

A condition survey will be undertaken to any adjacent structures and any making good will be carried out as required. The site will be cleared of all materials, tools, and equipment, all voids or uneven surfaces will be made good and leveled.

MANUAL HANDLING

All manual handling will be minimised through the provision of mechanical aids where practicable.

Where possible materials will be supplied in loads under 25kg. Operatives are not expected to handle loads of any items weighing more than 25 kg on the site without assistance.

If items above 25kg are to be lifted, or unusual, unstable, or hazardous items, the supervisor/site manager will determine a safe method of handling through completing a risk assessment and specifically instruct nominated individuals.

Any items or loads above 25kg to be handled through mechanical aids or team lifting.

The following manual handling general precautions will be taken:

Deliveries and materials handling will be planned to minimize the extent of manual handling of materials.

Routes by which materials have to be carried by hand will be checked for and kept free of, obstructions.

Appropriate PPE will be worn to make sure that materials can be handled safely, e.g. gloves and safety footwear.

Two or more operatives will carry larger or heavier items.

WORK EQUIPMENT

All current legislation and codes of practice regarding work equipment usage will be complied with.

Only those persons who have received suitable and sufficient instruction and training will be permitted to use work equipment.

All work equipment to operate on 110v.

Any mains powered 240v work equipment will operate, via a transformer or other power reducing device, at a reduced voltage of no more than 110v.

Prior to using any item of work equipment, it will be inspected to ensure that it is in good condition and unlikely to cause injury or harm to any person as a result of its correct usage.

Equipment guards to be correctly fitted before use.

All personnel is advised to check tools before each use and to take unsafe equipment out of service immediately, for repair or replacement.

Periodic testing and maintenance of all equipment carried out in accordance with regulations and manufacturer's instructions.

When not required for immediate use, all items of work equipment will be securely stored so as to prevent any unauthorized use or accidental contact with any sharp/rotating blades.

HOUSEKEEPING

All good practice guidelines regarding housekeeping in the workplace will be observed.
All spillages will be immediately cleaned up so as to prevent any slip hazards.
All work equipment, chemicals, and substances will be properly secured when they are not in use, so as to prevent any unauthorized usage or accidental contact.
During the works, the area will, so far as is reasonably practicable, be kept clean and tidy with clear walkways as appropriate.

WORKSPACE

All good practice guidelines regarding the provision of sufficient clear working space will be observed.
Prior to the commencement of any works, sufficient clear working space (taking into account the nature of the work, the location in which the work is to be undertaken, and the needs of any other building/site occupants) will be made available, so far as is reasonably practicable.
Suitable warning signage and barriers (as appropriate) shall be positioned around the work area, so as to restrict other persons from entering the said area.
During the works, attention will be paid at all times to the maintenance of clear working space.
If during the works, the maintenance of clear working space is impracticable, the person undertaking the work will liaise with the site management / principal contractor with a view to resolving the issue.

ENVIRONMENTAL

Work that may result in the escape of pollutants into the atmosphere or exposure to operatives will only be carried out by personnel who have been approved/licensed by the appropriate authority / professional organization.
Prior to the commencement of any works which may result in the escape of pollutants into the atmosphere, the area will be sealed off as required and entry to the work area will be restricted.
Prior to the commencement of any works which may result in the escape of pollutants into the local water table, suitable spillage equipment will be positioned as appropriate.
Suitable warning signage and barriers (as appropriate) shall be positioned around the work area before the commencement of any works which may cause environmental contamination.

EXTERNAL WORK

External work prohibited during extreme weather such as rain, strong winds, or snow. External work at height also prohibited in icy conditions.
Operatives to be warned of the dangers of skin damage prior to external work. Operatives must wear appropriate clothing to protect skin and must apply sufficient sun protection when exposed to UV rays.
Work area to be segregated from any pedestrians or traffic and signs erected to prevent members of the public or vehicles from coming into contact with operatives or access equipment.

WASTE DISPOSAL

All current legislation regarding the prevention of environmental contamination (including waste disposal) will be complied with.

Any contaminated or hazardous waste created as a result of works carried out will be properly contained and disposed of by a specialist company.
Waste must be transferred using a waste transfer note and the WTNs will be kept as records in the head office.

CLEANING

After completion of the work, the area shall be left in a clean, tidy condition and all associated waste shall be removed and properly disposed of.

PPE:

Hard Hat , Hivis , Gloves and glasses / Goggles depending on the task

Management Arrangements

Monitoring Arrangements:

Monitoring of this activity will be carried out using a variety of different means such as: inspections, checklists, meetings, audits, reviews, and employee consultation. The supervisor will carry out regular inspections of the works and highlight any concerns.

First Aid Provision:

Nominated First Aider(s)
First Aid Kit
Accident Book

Welfare Provision:

Welfare facilities will be provided within close proximity to the work area.
Personnel must not eat, drink or smoke in the work area. Welfare facilities, including rest areas and toilet facilities, will be left as they were found in a clean and tidy manner, and operatives are to ensure that they are reasonably clean and tidy before entering premises.

Emergency Procedures:

In the event of an accident notify the first aider immediately, for a major injury call 999 or if in doubt call 111.

In the event of a fire sound the alarm and exit the site by the nearest exit, to not attempt to tackle the fire unless you have been trained to do so and it is safe to do so.

In the event of discovering a material that you suspect could be asbestos containing, stop work immediately and notify the site manager/supervisor for further instructions.

Completed By

Name: Jag Kumari

Signature: *Jag Kumari*

Date: 29/07/21

Acknowledgement

Date	Name	Signature