



STANDARD OPERATING PROCEDURE
FORM NO.HSE/CORP/4

ACTIVITY	Inspection of blasting face and clearance			SITE	SMC	DEPARTMENT	Mining
SOP NO.	IMFA/SOP/SMC/MINING/06	REVISION	00	EFF DATE:	19.6.14	NO. OF PAGES	Page 1 of 4

Step No.	Activity (WHAT)	Associated Requirements/ Hazards/ Impact	Process / tools / PPEs (HOW)	Responsibility (WHO)	Remarks / Reference
1	Prohibition to enter blast area	Quality – i) Concerned statutory persons will inspect the blasted face.	i) After a shot has been fired blaster or any other competent persons holding a manager's or foreman's certificate appointed for the purpose by the manager shall enter to the blast site.	Blasting Foreman	DOC.NO. WI/OPRN/03
		OH&S – i) Ignorance about the blasting hazard and endangering persons	No other person except the blasting crew member will be allowed in the blasted site.	Blasting Foreman	DOC NO. HIRA/MINING/06
		Environment - Nil			
2	Entering the blasting face	Quality – i) Fall of ground soon after blasting	i) Dislodgement of rock after immediate blasting will be judged and accordingly proceeded to the spot.	Blasting foreman/Blaster	DOC NO. WI/OPRN/03
		OH&S – i) Inhalation of noxious fumes ii) Fall from height	i) Wait until all the smoke & dust is cleared from the blasted face. ii) While inspecting, see clearly the cracks, under cuts etc. and remain alert for possible fall from the edge .	Blasting Foreman/Blaster Blasting foreman/Blaster	DOC NO. HIRA/MINING/06



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		Environment- Nil			
3	Checking of blasting face	Quality- i)Make visual inspection for Misfires/Back break/Blown out shot	i)Check the followings- a)any misfire in the face. b)observe the fly rock travel distance. c)measure the back break after the blast. d)see the fragmentation. The performance of blasting will be checked. Observations will be recorded in Foreman's diary as per MMR, 1961.	Blasting foreman/Blaster	DOC NO. WI/OPRN/03
		OH&S – i)Misfire/Blown out shot	i)The blaster shall examine and satisfied that all charges have exploded and it is safe to resume work.	Blasting foreman/Blaster	DOC NO. HIRA/MINING/06
		Environment - Nil			
4	Clearance	Quality– i)Blowing of All-Clear signal	i)An all- clear signal of one long siren shall be given after the inspection that area is safe.	Blasting Foreman/ Blaster	DOC NO. WI/OPRN/03
		ii)Withdrawal of guards.	ii)The guards shall be withdrawn after checking that there is no misfires and declared as safe to resume work.	Blasting Foreman/ Blaster	
		iii)In case of misfire the procedure under Reg. 167 will be followed.	iii)During inspection if found the case of misfire, guards posted will not be withdrawn. Procedure under Reg. 167 will be followed as necessary to deal with the misfire.	Blasting Foreman/ Blaster	



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		iv)Recording the occurrence of Misfire	iv)Occurrence of Misfire will be recorded in Foreman's Diary as per MMR 1961	Blasting Foreman/ Blaster	
		OH&S – i)Endangering persons	i)After getting clearance from blaster/blasting foreman only, 'All Clear siren' will be sounded.	Blasting Foreman	DOC NO. HIRA/MINING/06
		ii)Endangering persons	ii)If for clearing a Misfire, long process is required and is not cleared on that period, then the place will be marked with red flag and no man or machinery will be deployed until it is cleared and safe in all respects.	Blasting Foreman/Blaster	
		Environment - Nil			

5	Duties of blaster at the end of his shift	Quality– i)Duties of blaster at the end of shift	i)He shall return all unused explosive to the magazine. ii)He shall record the followings in a bound paged book.- a) the quantity of explosives taken b)the quantity of explosives used and returned c)the places where the shots were fired d)the number of shots fired by him e)misfires etc. Every such entry shall be signed and dated by him.	Blaster Blaster	DOC.NO. WI/OPRN/03
		OH&S – Nil			
		Environment – Nil			

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Name Designation Signature: Date:	Prepared by M.K. Samal Mines Manager	Approved by S. Patni Sr. GM(Mines)
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NOTE :**SIX DIRECTIONAL HAZARD IDENTIFICATION DURING JOB :**

In addition to the above SOP, a 6-directional hazard identification sheet shall be used before start of the job. While executing the job at site, any hazards from six directions (**NORTH, SOUTH, EAST, WEST, TOP, BUTTOM**) to be assessed based on physical observation, common sense & experience. Controls shall be taken for any hazards thus identified.

TRAINING RECORD OF SOP :

The Training on this SOP with six directional hazards is to be imparted to concerned employee and contract workers by Shift In-Charge / Deptt. Head as applicable. The Training Record to be maintained in a register with signature of the individual employees before starting of the job.