



STANDARD OPERATING PROCEDURE

FORM NO.HSE/CORP/4

	ACTIVITY	Loading, Unloading & Transportation of Explosives			SITE	SMC	DEPARTMENT	Mining
SOP NO.	IMFA/SOP/SMC/MINING/04	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	Pre-start checking of Explosive Van	Quality – i)The driver will check the conditions of Explosive Van.	i)Check the followings: a)fuel and oil b)brakes and steering system c)tyre condition d)working order of all the safety features d)earth continuity chain. e)fire extinguisher in order	Driver	DOC.NO. WI/OPRN/03
		OH&S – i)Vision problem ii))Fire due to short-circuiting	i)Keep the cab window, rear view mirror clean so as to ensure clear vision at all times. ii)Check that electrical wirings are securely fastened and there is no loose connection.	Driver Driver/ Auto electrician	DOC NO. HIRA/MINING/04
		Environment- i)Oil spillage ii)Air pollution(smoke) due to fire iii)Air pollution(smoke)	i)Check for any leakage in the feed line or fuel tank . ii)Keep the inside of cabin clean and free of oil and grease. .iii)See the condition of explosive van for excessive smoke coming out from the exhaust.	Driver/ mechanic Driver/ mechanic Driver/ mechanic	Aspect No.16 Aspect No.17 Aspect No.19
2	Loading of explosives to the Explosive Van	Quality – i)No extraneous material will be transported with explosives.	i)In the explosive van no tools or tackles of steel material will be transported with the explosive material.	Blaster	DOC.NO. WI/OPRN/03



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		<p>OH&S – i)Skin Infection</p> <p>ii)Explosion</p>	<p>i)During carriage of explosives, hand gloves shall be used.</p> <p>ii)While loading/unloading, ensure no spillage of explosives from the case/container.</p>	<p>Blaster/ helper</p> <p>Blaster</p>	<p>DOC NO. HIRA/MINING/04</p>
		<p>Environment –Nil</p>			
3	Transportation of Explosives to the charging site	<p>Quality – i)Authorised persons will travel in the explosive van.</p> <p>ii>Loading,unloading & transportation of explosives</p> <p>iii)Transportation of detonator</p> <p>iii)Traveling of explosive van in the haul road</p>	<p>i)Do not allow unauthorised persons to travel in the explosive van.</p> <p>ii)While explosives are being loaded or unloaded or transported shall always be under the charge of a competent person who shall be experienced in handling of explosives and fully conversant thereunder.</p> <p>iii)Detonators shall not be transported with any other explosives. Detonator shall be secured in a wooden box and carried in a locked condition.</p> <p>iii)During transportation the explosive van will travel with a red flag to attract the attention of other vehicle on the road.</p>	<p>Driver/ Blaster</p> <p>Blaster</p> <p>Blaster</p> <p>Blaster/Driver</p>	<p>DOC.NO. WI/OPRN/03</p>
		<p>OH&S – i)Accidental opening of door</p> <p>ii)Out break of fire and explosion</p> <p>iii)Collision</p>	<p>i)Do not carry excess persons in the explosive van.</p> <p>ii)Smoking/fire/artificial light or any article capable of causing fire shall not be allowed in the explosive van.</p> <p>iii)Follow all the road signs and traffic rules and</p>	<p>Driver</p> <p>Driver</p> <p>Driver</p>	<p>DOC NO. HIRA/MINING/04</p>



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		iv)Collision v)Striking Environment -Nil	do not overtake any other vehicle on the road iv)Drive defensively and under control. v)Do not approach short cut or pass through crowded area.	Driver Driver	
4	Unloading of Explosives	Quality – i)Explosive will not be left unattended.	i)After unloading from explosive van, the explosives will not be left unattended.	Blaster	DOC.NO. WI/OPRN/03
		OH&S – i)Fall of boulder from working bench ii)Toppling due to crossing of bench edge iii)Explosion due to shock	i)The explosives will not be unloaded at a bench just below the working bench where machines are operative. ii)The explosive van will be stationed at a safe distance from the charging site. It will not be allowed to approach or take turn in a bench which has no barrier. iii)The explosive materials will be unloaded and shifted carefully to the blasting sites.	Blaster Driver/ Blaster Blaster	DOC NO. HIRA/MINING/04
		Environment - Nil			

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Name Designation Signature: Date:	Prepared by M.K. Samal Mines Manager	Approved by S. Patni Sr. GM-SCM

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.