



EHS RISK ASSESSMENT FORM

R.A. No.		Assessors Name	Date	Signature
Site		Volker Terjung , health and safety officer (SiFa), translated by Andreas Althoff	26.04.2011	
Location	Power Plants worldwide			
Date	2011			

Hazards and Risks	Risk 1 - 25	Control Measures Implemented	Residual Risk 1-25
01 Folding by hand (01) Equipment: Products: sheets Risks: injuries at hands, crushes Severity: medium Frequency: rare Risk assessment: Probability+Frequency:3, Severity: 1	3	Technical: Organizational: Personal briefing Personal protective equipment PPE: Preventive medical examination: Regulations: Check/Maintenance: BGV A2 Check every 4 years Risk assessment: Probability+Frequency: 2 Severity: 1	2
02 Preparing hard plaster (03) Equipment: Mixing machine Products: hard plaster Risks: harmful dust, crushes, rotating parts Severity: medium Frequency: rare Risk assessment: Probability+Frequency:3, Severity: 1	3	Technical: deposit mixing machine safety and on flat ground Organizational: Personal briefing Personal protective equipment PPE: Dust mask P2 Preventive medical examination: G26.1 (Breathing protection) Regulations: Check/Maintenance: BGV A2 Check every 0,5 years Risk assessment: Probability+Frequency: 1, Severity: 1	1
03 Working with cutting-off-machines (04) Equipment: cutting-off-machines Products: band iron Risks: injuries to be caused by sharp-edged parts, ejection of parts, injuries at hands caused by non-protected saw blades, harmful dust Severity: high Frequency: rare Risk assessment: Probability+Frequency:4, Severity: 1	4	Technical: Technical utilities Organizational: Personal briefing Personal protective equipment PPE: safety shoes, ear protecting, safety glasses Preventive medical examination: G26.1 (Breathing protection) Regulations: Check/Maintenance: BGV A2 Check every 0,5 years Risk assessment: Probability+Frequency: 2, Severity: 1	2



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<p>04 Drilling (08) Equipment: hand drill power op., drill hammer Products: Risks: unintendend turn-a-rounds of the machine, gathering while wearing gloves Severity: modest risk Frequency: rare Risk assessment: Probability+Frequency:2, Severity: 1</p>	<p>2</p>	<p>Technical: Organizational: Personal briefing Personal protective equipment PPE: safety glasses, Ear protecting. Do not wear gloves Preventive medical examination: Regulations: Check/Maintenance: BGV A2 Check every 1 Years Risk assessment: Probability+Frequency: 1, Severity: 1</p>	<p>1</p>
<p>05 Welding and Cutting (12) Equipment: Weldingmaschine, power op. Products: Risks: burn, harmful weld smoke Severity: modest risk Frequency: rare Risk assessment: Probability+Frequency:2, Severity: 1</p>	<p>2</p>	<p>Technical: protectiv barrier of the working area, Air ventilation and bleeding , Breathing protection and exhaustion if necessary Organizational: Personal briefing Personal protective equipment PPE: gloves, safety glasses, Breathing protection Preventive medical examination: G39 (weld smoke) Regulations: BGR 500 Check/Maintenance: BGV A2 Check every 1 Years Risk assessment: Probability+Frequency: 1, Severity: 1</p>	<p>1</p>
<p>06 Paint, varnish, Coatings (15) Equipment: Products: varnish, paint, resolvent Risks: harmful vapors, skin hazards Severity: high Frequency: occasionally Risk assessment: Probability+Frequency:4, Severity: 1</p>	<p>4</p>	<p>Technical: air ventilation of working area Organizational: Personal briefing, issuing of working instructions, ensuring of applicable storage rooms, separate storing of hazardous, limitation of hazardous goods Personal protective equipment PPE: dust mask P2, gloves, safety glasses Preventive medical examination: G26.1 (Breathing protection) Regulations: GefStoffV Check/Maintenance: Risk assessment: Probability+Frequency: 2, Severity: 1</p>	<p>2</p>
<p>07 Tools (26) Equipment: Tools Products: Risks: injuries on hands and other, body parts Severity: modest risk Frequency: occasionally Risk assessment: Probability+Frequency:2, Severity: 1</p>	<p>2</p>	<p>Technical: using adequate tools Organizational: Personal briefing Personal protective equipment PPE: Preventive medical examination: Regulations: Check/Maintenance: Risk assessment: Probability+Frequency: 1, Severity: 1</p>	<p>1</p>



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<p>08 Lifting and carrying of heavy stocks (27) Equipment: Products: Risks: Indisposition of muscles and the skeleton as a consequence of frequent, overused and faulty lifting and carrying. Severity: high Frequency: often Risk assessment: Probability+Frequency:4, Severity: 1</p>	4	<p>Technical: Organizational: Personal briefing, providing of handling and transport aid, reasonable demands acc. to BGI 523, paying attention of legal protecting of working mothers Personal protective equipment PPE: safety shoes not less than S2, gloves Preventive medical examination: providing occupational medicine Regulations: BGI 523, 582 Check/Maintenance: Risk assessment: Probability+Frequency: 2, Severity: 1</p>	2
<p>09 Hazard generated by noise (28) Equipment: Products: Risks: hearing damage, dissonance of acoustic warning signals, bad consequences to the general health Severity: high Frequency: often Risk assessment: Probability+Frequency:4, Severity: 1</p>	4	<p>Technical: Organizational: Personal protective equipment PPE: Preventive medical examination: Regulations: Check/Maintenance: Risk assessment: Probability+Frequency: 2, Severity: 1</p>	2
<p>10 Working on the bench (29) Equipment: Products: Risks: hearing damage, dissonance of acoustic warning signals, bad consequences to the general health Severity: high Frequency: often Risk assessment: Probability+Frequency:4, Severity: 1</p>	4	<p>Technical: Organizational: providing of machines and tools with minor noise emission, marking of noise areas (> 90 dB(A)) noise-reduction-programs acc. to BGI 675, Noise areas > 85 dB(A): providing of Personal protective equipment PPE: Ear protecting BGR 194 Preventive medical examination:G20 (Noise) Regulations: Workplaces ordinance BGI 504-20, BGI 675, BGR 194, BGV A4, BGV B3, GSGV, Third ordinance to the Equipment safety law Check/Maintenance: Risk assessment: Probability+Frequency: 2, Severity: 1</p>	2
<p>11 Handling with ladders (30) Equipment: Ladders in different design Products: Risks: Falling as a consequence of damaged or faulty ladders or incorrect using Severity: high Frequency: rare Risk assessment: Probability+Frequency:3, Severity: 1</p>	3	<p>Technical: Organizational: Personal briefing Personal protective equipment PPE: safety shoes Preventive medical examination: Regulations: BGV D36, BGI 521 Check/Maintenance: technical check before using, BGV A2 Check every 1 year Risk assessment: Probability+Frequency: 1 Severity: 1</p>	1



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<p>12 Using of PPE (31) Equipment: Products: Risks: Danger of accident, Severity: high Frequency: occasionally Risk assessment: Probability+Frequency:4, Severity: 1</p>	<p>4</p>	<p>Technical: Organizational: Risks decrease, assessment of PPE and correlation to workplaces, Inspection Personal protective equipment PPE: see attached data file Preventive medical examination: G26 (Breathing protection) Regulations: PPE-regulation, BGV A1 §29 Check/Maintenance: before using Risk assessment: Probability+Frequency: 2, Severity: 1</p>	<p>1</p>
<p>13 Electrical plant and equipment (38) Equipment: Electrical plant and equipment Products: Risks: electrical accidents, electric arcs, fire Severity: very high Frequency: rare Risk assessment: Probability+Frequency:4, Severity: 1</p>	<p>4</p>	<p>Technical: Organizational: Briefing, using faultless plants and equipment, regarding of VDE-Instructions and UVV „Electrical plants and equipment“ BGV A2 Personal protective equipment PPE: Preventive medical examination: Regulations: BGV A3, BGI, 594, 600, 608 Check/Maintenance: continous checks, Checklists acc. to. schedule 1A of BGV A2 §5 Risk assessment: Probability+Frequency: 2, Severity: 1</p>	<p>2</p>
<p>14 Cutting sheets (40) Equipment: hand lever guillotines Products: sheets Risks: Injuries at hands, cutting damage Severity: modest risk Frequency: rare Risk assessment: Probability+Frequency:2, Severity: 1</p>	<p>2</p>	<p>Technical: Using of shielded tools and machines Organizational: Personal briefing Personal protective equipment PPE: Preventive medical examination: Regulations: Check/Maintenance: Risk assessment: Probability+Frequency:1 , Severity: 1</p>	<p>1</p>
<p>15 Mineral fibres KMF (41) Equipment: Products: Products made of mineral fibres KMF Risks: health hazard as a consequence of inhalation of respirable fibres, irritation os skin, eyes and respiratory tracts Severity: medium Frequency: often Risk assessment: Probability+Frequency:4 Severity: 1</p>	<p>4</p>	<p>Technical: Using of machines and tools, designed for marginal dust expositions Organizational: Using of biosoluble mineral fibres KMF, handling with marginal dust expositions, periodical cleening of working areas, issuing of working instructions, Personal briefing Personal protective equipment PPE: dust mask P2, safety glasses when overhead work, skin protection lotions Preventive medical examination: using masks: G26.1 (Breathing protection) Regulations: TRGS 521 Check/Maintenance: Risk assessment: Probability+Frequency:2, Severity: 1</p>	<p>2</p>



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<p>16 Working with machines (42) Equipment: Products: Risks: moving parts unprotected, Maschinenteile, risk of crushing, risk of fall Severity: high Frequency: rare Risk assessment: Probability+Frequency:4, Severity: 2</p>	8	<p>Technical: Avoiding of danger zones and reasons of danger Organizational: Personal briefing, Risk assessment Personal protective equipment PPE: wearing of hairnets tight-fitted work clothes, Ear protecting, safety glasses Preventive medical examination: Regulations: BGR 500 Check/Maintenance: BGV A3, Maintenance Risk assessment: Probability+Frequency:2, Severity: 2</p>	4
<p>17 Rounding machines, rolling (43) Equipment: Rounding machines Products: sheets Risks: The main course of accidents is wearing of gloves and absence of hand protection. Severity: high Frequency: rare Risk assessment: Probability+Frequency:4, Severity: 1</p>	4	<p>Technical: Covering of the drive gears, hand protection for power operated rounding machines, Emergency stop Organizational: Personal briefing, never wear gloves while working with rounding/rolling machines Personal protective equipment PPE: Caution: Never wear gloves while working with rounding/rolling machines Preventive medical examination: Regulations: BGR 500 Check/Maintenance: BGV A3, Maintenance Risk assessment: Probability+Frequency:2, Severity: 1</p>	2
<p>18 Hand lever guillotines (44) Equipment: hand lever guillotines Products: sheets Risks: hand damage at the cutting line Severity: high Frequency: rare Risk assessment: Probability+Frequency:4, Severity: 1</p>	4	<p>Technical: Top knife to be added with counter balance, safeguarding equipment, locking of the knife bar Organizational: Personal briefing Personal protective equipment PPE: Preventive medical examination: Regulations: BGR 500 Check/Maintenance: Check acc. to BGV A3 every 4 years Risk assessment: Probability+Frequency:2, Severity: 1</p>	2

Guidance

Probability & Frequency	Definite	5	5	10	15	20	25
	High	4	4	8	12	16	20
	Moderate	3	3	6	9	12	15
	Low	2	2	4	6	8	10
	Negligible	1	1	2	3	4	5
Risk Assessment Matrix			1	2	3	4	5
			Minor	Moderate	High	Major	Catastrophic
		Severity					

Tolerable
Low Priority
Medium Priority
High