

## Reply / Clarifications to the queries received from bidders after pre-bid meeting

**(TID Reference No.: RSMML/CO/PROJ/2011-12/141 dated 07-06-11)**

A pre-bid meeting was held on 28-06-11 at RSMML's Corporate Office, Udaipur in which the queries of bidders which were either received prior to pre-bid meeting or raised during the pre-bid meeting were discussed and clarified. On the basis of the discussions and clarifications an Addendum No – 1 dated 28-06-11 was issued which was emailed to all prospective bidders as well as uploaded on our websites.

The specifications provided in Tender document are indicative and are minimum requirements for the general guidance for Bidders. Bidders have to design Turnkey Plant so as to meet the specified objective with the established and proven practices so as to achieve optimum efficiency and output. This clarification will also be an integral part of the bid document.

Further to the addendum some more queries have been received from bidders, therefore, it has been decided to issue clarifications to the following queries:

### A. Mechanical: (Volume – II)

S. No.	Clause No.	Subject / Description as Per Tender Document	Query	Reply/clarification
1	1.8.4 Addendum – 1 10.8.4	R.C.C. hopper capacity will be 150 M.T. 60 lbs rail with proper spacing acceptable for Feed Hopper	R.C.C. Hopper capacity will be 120 MT in place of 150 MT. However 90 ILb / Yard Rail liner will be provided - Please confirm.	Hopper Capacity 150 MT as per Tender Clause No. 1.8.4. Rail specification as per Addendum clause No. 10.8.4. Bidder can give higher specification
2	10.6.1	It shall be suitable for a maximum feed rate 180 TPH (dry basis)	Apron Feeder (Equipment No. CR-4 ) Pan width will be 1200 mm with 180 TPH ( dry basis ) , Pan material will be Sailma 350 HI – Please confirm.	Pan width & MOC to be suitable for Bidders Layout and Duty Condition as per Tender Clause No. 10.6.1
3	10.9.2	For standardization of components a limited no. of belt width shall be used. They have been selected as 800, 1000, 1200 mm	Conveyor CR-7 Belt Width : 800 mm with 2 mts./ sec. Speed – Please confirm	Bidder to select belt width suitable for layout and specified duty conditions.
4	10.9.2	The contractor shall meet the capacity requirement of conveyors by varying the	Conveyor CR-9 Belt Width : 800 mm with 2 mts./ sec. Speed – Please confirm	The belt speed within a preferred range of 0.5 to 0.6 mts/sec. mentioned in clause no. 10.9.2 is indicative only.

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5	10.9.2	belt speed within a preferred range of 0.5 to 0.6 mts/sec.	Conveyor CR-12 Belt Width : 800 mm with 2 mts./ sec. Speed – Please confirm	<p>However the Bidder may decide speed and angle of inclination of belt conveyors (maximum upto 16<sup>o</sup>) as per standard practice and meeting the capacity requirement of conveyers subject to:</p> <ol style="list-style-type: none"> <li>1. No Roll back of material on the Belt</li> <li>2. Angle of feeding zone should not exceed 6<sup>o</sup></li> <li>3. Maximum inclination &amp; maximum Belt speed should not occur simultaneously.</li> </ol>
6	10.9.2		Conveyor CR-15 Belt Width : 650 mm with 2 mts./ sec. Speed – Please confirm	
7	10.9.2		Radial Stacker Conveyor CR-19 Belt Width : 650 mm with 2 mts./ sec. Speed – Please confirm	
8	10.9.3	Angles of inclination of belt conveyors at any portion shall not exceed 13 degree	Feeding angle of conveyor 16 degree (Max.) – Please confirm with respect to your space limitation.	
9	10.9.3	And as per clause 10.1.8 the slope will be adequate and design should be such that automatic and adequate flow of material takes place without jamming ore hold up At the feeding zone angle of inclination shall not exceed 6 degree unless otherwise specified	Conveyor slope will be 16 degree (Max.) – Please confirm with respect to your space limitation.	
10	1.8.7	The final crushed product will be stacked in the open area with a 7 days stacking capacity through adjustable telescopic chute with remote operating facility	One motorized Telescopic Chute will be provided at head end of Conv. CR-19. - Please confirm.	- Refer clause 1.8.7 of Volume - 2
11	10.7.2	The screen shall be supplied with isolation frames to prevent vibration transfer to building / structure etc.	Please note that Vibrating Screen will be mounted on Structural Floor Beam at Screen House. Vibration will be take care. So unnecessary independent structure not required.	Civil & Structural design is Bidders responsibility, it should meet the requirement as per Tender Clause No. 10.7.2
12	107.2		At Crusher House all major equipments like as Apron Feeder, Jaw Crusher, Hammer impactor seating on R.C.C. Floor.	

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13	1.5.2	Development of finished product stockpile of 15000 M.T. capacity to be done	Capacity of Finished Product (Crushed HGO Rock Phosphate) will be 12 000 Ton (Max.) within space limitation.	15000 M.T. capacity required as per Tender Clause No. 1.5.2
14	1.5.2 1.8.1 1.8.7	Development of coarse stockpile of 50,000 M.T. capacity to be done	<p>Required space availability for uncrushed HGO Rock Phosphate will be 144 mts X 28 Mts.</p> <p>Please note that actual capacity will be come out within the required space limitation.</p> <p>If you increase the capacity up to 500000 ton accordingly length of stock pile will be increase. But width of stock pile (28 mts – approx.) will be constant with respect to Haul Road.</p>	coarse stockpile of 50,000 M.T. capacity required as per Tender Clause No. 1.5.2 , 1.8.1 and 1.8.7
15			Please see the our Layout within your Battery limit (ABCD area) and give your comments.	Layout can be examined during Technical scrutiny of the Valid Tenders
16	1.8.6 1.8.9	<p>Adequate size, E.O.T. crane shall be provided in crusher house for maintenance of jaw crusher.</p> <p>E.O.T. cranes shall be provided for screens and secondary crushers.</p>	Pl. confirm whether an EOT Crane of 20/5 T capacity at Primary Crusher Building is required.	Please follow Tender Specifications Clause No. 1.8.6 & 1.8.9
17	2.1.1	Battery Limits	ROM ore shall be brought by RSMML dumper and shall be stored by vendor? And feeding by Dozer by RSMML? Or alternatively all dumpers, dozer shall be provided by the vendor including operators?	<p>ROM shall be brought to the stockpile area by RSMML and shall be stored on the open area sufficient for storing 50,000 MT stockpile. However construction of the allotted stockpile area for the ROM is in Bidder's scope.</p> <p>RSMML will also arrange to blend and Unload ROM on the Grizzly placed over the feed Hopper.</p> <p>Bidder will separate + 600 mm oversized</p>

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				which are to be manually reduced so as to pass through Grizzly. Reloading of such reduced material will be in RSMML's Scope.

**B. Electrical: (Volume – II)**

S. No.	Clause No.	Subject / Description as Per Tender Document	Query	Reply/clarification
1	CL.NO.- 11.18.1	DRAW OUT TYPE / FIXED TYPE SWITCH BOARDS	We presume that the main switch board receiving power supply from distribution transformer will be draw out type & all other switch boards are fixed type. Please confirm.	All breakers to be fully Draw out type
2	CL.NO.- 11.6.2.3	ILLUMINATION SYSTEM	It is indicated "lighting system to be 220/230V three phase three wire system, in the control room" please clarify	Confirmed All Lighting system as per DGMS requirement.
3	CL.NO.- 11.6.2.3	ILLUMINATION SYSTEM	We presume that lighting transformer shall be 415V /230V AC, dry type. Please confirm.	confirmed
4	11.7.3.7	LAYOUT CRITERIA	We presume that Maintenance Room, Shift Room shall be provided at Substation / Electrical Room Please confirm	Common Maintenance & shift room for plant
5	11.8.4.6	SELECTION OF MOTOR STARTERS	As per specification, all motors shall have max 1.5 to 2 times starting current. Considering DOL starting, the normal starting current will vary from 5 to 7 times. In case we have to limit as per specification, we have to provide soft starter / VFD for all motors. This will increase the cost abnormally. PI review and revert.	Starting current limitation as per clause. Motors up to 10 kw DOL starting. 10 kw and above up to 30 kw Shall be Star Delta starting. 30 kw and above shall be soft Starter starting.

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6	11.11.4	CABLE TRENCH / CABLE CELLAR	Since plant is controlled by hard wired logic, we do not envisage any requirement of cable cellar. Pl confirm	As per requirement
7	11.22.4.2	RS-485 PORT	It is indicated Load Manager to be provided with RS 485 Port	Required
	3.2.8.3	CONTROL PHILOSOPHY	It is indicated "the complete plant shall be operated from a Hard wired control desk & sophisticated controls thorough PLC "or" DCS is not there", please clarify the requirement of RS-485 port at load manager	To be connected to PC for Load Management and Energy Audit
8	11.22.10.2	MOTOR SPACE HEATER	In Motor Spec Cl. 11.8 requirement of Motor Space Heater is not Specified. Please confirm requirement of Motor Space Heater.	For the motors above 20 kw
9	1.5	BATTERY& BATTERY CHARGER.	It is indicated" control voltage for circuit breaker shall be 24V DC +10%, -15%. Please provide the specification for battery & battery charger with Back up time.	24 V DC Power Pack to be provided in HV Breaker for tripping and indication only. Maximum back up for 30 minutes.
10	11.38.1	STREET LIGHTING	We presume that Street Lighting To be provided for Proposed Road between Existing Road to new Loading area as mentioned in Section 3 Page 12. Please confirm	Confirmed. Illumination in battery limit to be maintained as per DGMS requirement
11	5.2	FLOOD LIGHTING TOWER / LIGHTING MAST	Lattice structure flood light tower is indicated.	To be decided by the bidder Illumination in battery limit to be maintained as per DGMS requirement
	11.38.2.1		As per referred clause light mast "OR" lattice structure flood light tower to be considered.	

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			Please clarify the requirement is lighting mast or lattice structure flood lighting tower	
12	11.38.2.1	FLOOD LIGHT TOWER	It is not clear the area to be illuminated using High Mast. We presume that High mast Lighting to be considered only for Stock Pile area. Please Confirm	Required for all the area for proper lighting.
13	11.37.10.5	PHOTO CELLS	We presume that Photo cell control to be provided only for outdoor area lighting. Please confirm	confirmed
14	11.3.11	SCOPE OF SUPPLY	We presume that there is no requirement of instrumentation & special cables as there are no sophisticated controls PLC or DCS. Please confirm.	As per requirement
15	11.7.2	FLOOD LEVEL	Please furnish Elevation of Highest Flood Level	No Floods are anticipated in Plant area, however Bidder to satisfy himself.
16	11.31.3 & 11.38.7.3	HAZARDOUS AREA	We presume that all areas are safe area, please confirm.	No Explosives, Fuel oil, or Hazardous Chemicals are stored / used in plant, Please note Plant is in mining lease area and DGMS requirements shall be fulfilled
17	11.6.2.1	WELDING RECEPTICALS	We presume that each feeder will feed 3nos. of welding receptacles (looped). Please confirm.	Separate with ELCB and Socket to be provided for each socket outlet
18	3.2	230V POWER RECEPTICALS	We presume that 15A 240V socket (RB Type) is not required, as locations are not mentioned. Please confirm	Required

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19	11.6.2.3& 7.3	EMERGENCY LIGHTING	in page no-73, clause no-11.6.2.3 it is indicated" shall be led type with battery backup " & in page no-123, clause no-7.3 it is indicated " portable emergency light set complete with one 20w tube light, battery, battery charger and all other accessories", please confirm fitting shall be led type or 20w tube light and also kindly provide the battery back up duration.	Battery back up for Eight hours With LED
20	11.29.1.2 (d)	SOIL RESISTIVITY	Please furnish soil resistivity report.	Bidder to Test and satisfy himself
21	11.39.1 & 11.39.2	CAPACITOR BANK	Please confirm the requirement of power factor correction is group compensation with APFC relay or individual compensation.	All motors up above 10 kw shall be provided to bring the power factor to 0.95 Combination of APFCR panel is required to bring the average power factor as required in tender.
22	XXX	PRESSURIZATION SYSTEM/ AC/ FAN	We presume that sub station pressurization& control room air conditioning is not required. Please confirm.	Air Conditioning system required in the Office area. Pressurization system required for control room area except shift / maintenance room
23	XXX	11KV HT CABLE SPECIFICATION	Please provide Specification for HT cable	As per the Specification sheet Shall be FRLSH type, XLPE cable.
24	XXX	11KV OVER HEAD LINE	Please provide specification for 11kv over head line	11 KV Over Head line shall be designed for 11 kv Unearthed system. (Clause 11.3.1) Minimum clearance at center of the span shall be 8 meters, (10 meter at road crossing) All structure shall be of minimum IS MB 200 and IS MC 100 with HOT DIPPED Galvanized. Clearance and creepage for highly polluted zone to be provided.

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25	XXX	STANDBY DISTRIBUTION TRANSFORMER	We presume that the distribution transformer will be loaded 100% & there is no requirement of stand by distribution transformer. Please confirm.	To be loaded to 70% of rated KVA at 100% full load KVA of the plant.
26	1.11	Battery limit condition	Battery limit condition of Drinking water & Industrial water need to be provided	Please see page 8, clause 1.11.2