Notification of Launch Contract Execution Information

The following information is requested to provide an overview of data relating to your Google Lunar X PRIZE mission.

Team Name: Team PlanB, Adobri Solutions Ltd.

Date of Submittal:

01/12/2016

Name of Spacecraft (lander and secondary vehicle if appropriate): SkyLarch10A

Proposed Launch Attempt Date and Time: before end of 2017

Injection Orbit:

With Interorbital Launch provider – unknown. With ISRO -

Launch Attempt Window Availability: Q4 2017

Launch Facility Location: With Interorbital – To Be Provided. With ISRO – ISRO Launch site.

Mission Control Location: Vancouver British Columbia.

Launch Provider: With Interorbital – Interorbital System. With ISRO – India Space Research Organization.

Launch Support Services Furnished:

With Interorbital – ride-share depended on configuration provided by Interorbital System. With ISRO -secondary payload on one of two available flights.

Nationalities of all "Launching States": Interorbital – USA, ISRO – India, Team planB, Canada.

Launch Vehicle:

Interorbita – To Be Determed, ISRO -PSLV

Other Payloads on Launch:

Interorbital – Shareride with Sinergymoon, ISRO - undesclosed

Proposed Lunar Landing Location: Interorbital – unknown, Team PlanB targeting location - E15S2

Approximate Date/Time of Lunar Landing: before end 2017

Bonus Prizes Attempting: no

Expected Date/Time for Bonus Prize attempts if known: unknown

Provisions for XPRIZE staff and Judges to Witness Final Integration and Launch:

Anytime XPRIZE staff and Judges can come to see all stages of integration and launch.

List of reviews that Judges and XPRIZE staff will be able to witness:

Mission Analysis Review, Safety Reviews, Flight/Launch Readiness Review

List of Mission-related documentation that will be made available to the judging panel

All design (except attitude control system) available https://github.com/alexdobrianski?tab=repositories , attached to current submission envelope for ISRO PSLV approach. In mission control system (http://50.64.123.13/SatCtrl/TraCalc.aspx available from http://adobri.com/SatCtrlR.aspx → "Trajectory Calculation" → "Craft settings" → "Initial orbit settings" → "Target settings") for Judges and XPRIZE staff will be provided account to monitor all space flight, parameters of the orbit, all nesessery testing and real flight telemetry stream (like on - http://50.64.123.13/SatCtrl/Simulation.aspx)

Keplarian elements at start and end of all major orbital manoeuvres Interorbital – To be determined. ISRO-

Semi major Axis (km) =6882.607994

Eccentricity - 0.000171

Inclination (deg) -97.457538

Right Asc. Node (deg) -141.434945

Arg. of Perigee (deg) - 217.013142

True Anomaly (deg) - 355.156848

Perigee with Mean EER (km) - 503.293463

Apogee with Mean EER (km) - 505.648524

Wet mass of Team's spacecraft: Interorbita – to be determined, ISRO - 32kg

Dry mass of Team's spacecraft: Interorbital – to be determined, ISRO 32kg -

Propellants to be used in Team's spacecraft: solid state motors

Total launch price: Interorbital - 1,000,000 USD – ISRO around 1,235,000

Total contribution of launch price to be paid by team itself :

For Interorbital -delivery rover technology to ride-share flight with SinergyMoon will cost 1,000,000, that will allow to pay for 1kg near lunar injection of Team PlanB satellite. ISRO – full pay. Our rover technology is not separable from our satellite technologies. That included Ballistic calculation system integrated with mission control (TRA) for a craft and rover, attitude control system for a craft and rover. Communication 2.4GHz for craft and rover. Position determination system. All technology is our capital which we will use in ride-share, to compensate our input we are seeking 1kg satellite near lunar injection as a outcome of GLXPRIZE mission. We see the attempt to flight with any lunar surface activity are to risky without initial stages of low earth orbit and lunar economical touchdown. ISRO flight and 1KG satellite with near lunar injection must be stages before any lunar surface activities. Only way to make such risky attempt is to have access to government's agencies expertise – which we do not have and not allowed to have for various reasons.

List of intermediaries between the team's legal entity and the legal entity of the launch provider: to be determined.

Table of contract payments showing: amount, date, refundable/non-refundable:

Interorbital – initial pay 13K was done in 2011, Signed contract with Interorbital is attached in the package. We are working with interorbital using clause 7 of contract, "Scheduled Launch Slot Transfer: All pre-purchased launches are transferable, but only with the written permission and approval of Interorbital Systems." of the contract to change the Launch slot date and mission to 1kg payload delivery to near lunar location within 6,000km. Rideshare with Synergy Moon will be based on technical contribution to the mission provided by Team Plan B. Additionally to the technical contribution, initial payment for the contract for 1 kg to

interorbital will be transferred to the mission. ISRO's PSLV, Team Plan B advisors are looking to close the finances for the launch of Skylark-A10.

Summary of all contract termination conditions: clause 7 "All pre-purchased launches are transferable, but only with the written permission and approval of Interorbital Systems."

Summary of terms related to slippage of launch date: clause 7 "All pre-purchased launches are transferable, but only with the written permission and approval of Interorbital Systems."

Attach a scanned copy of the complete contract (or chain of contracts). Copies of at least the following parts of the contract(s) should be included:

- **Signature page(s)**
- **Total price of launch services**
- **Payment schedule**
- **All text related to any refundable components of the launch price**
- **All text related to provisions for XPRIZE staff and judges to be present at integration, launch and in the launch operations center**
- **Termination conditions**

Mission Timeline Information

Please provide timeline information regarding key milestones and events leading up to and following the launch. This is to allow us to work together to plan for the necessary involvement of Judges as well as for optimizing media exposure. An example of possible timeline items can be seen below (days are indicative only).

Integration Timeline (180 – 14 Days Pre Launch)

Interorbital – to be determined. ISRO – June 2017.

Prelaunch Operations Timeline (14 days – 2 Days Pre Launch)

Interorbital - 14 days before launch. ISRO – 14 days before launch.

Launch Timeline (2 – 0 Days Pre Launch)

Anytime for Judges and GLXPRIZE staff.

Mission Timeline including:

- **Launch till lunar landing**
- **Surface operations from landing until end of Mission Complete Mooncast**
- **Any bonus prize attempts**

Alternate reporting of key milestones and events will be evaluated on a case-by-case basis.

Media and Communications

XPRIZE will work with Teams to develop a comprehensive media and communications plan around the Launch designed to maximize public engagement and participation. The requests here are to provide a base level of information upon which to start the planning.

Contact Information:

Sergei Dobrianski. 1-604-3061526. Interorbital – to be determined. ISRO – To be determined.

Restrictions:

No restriction.